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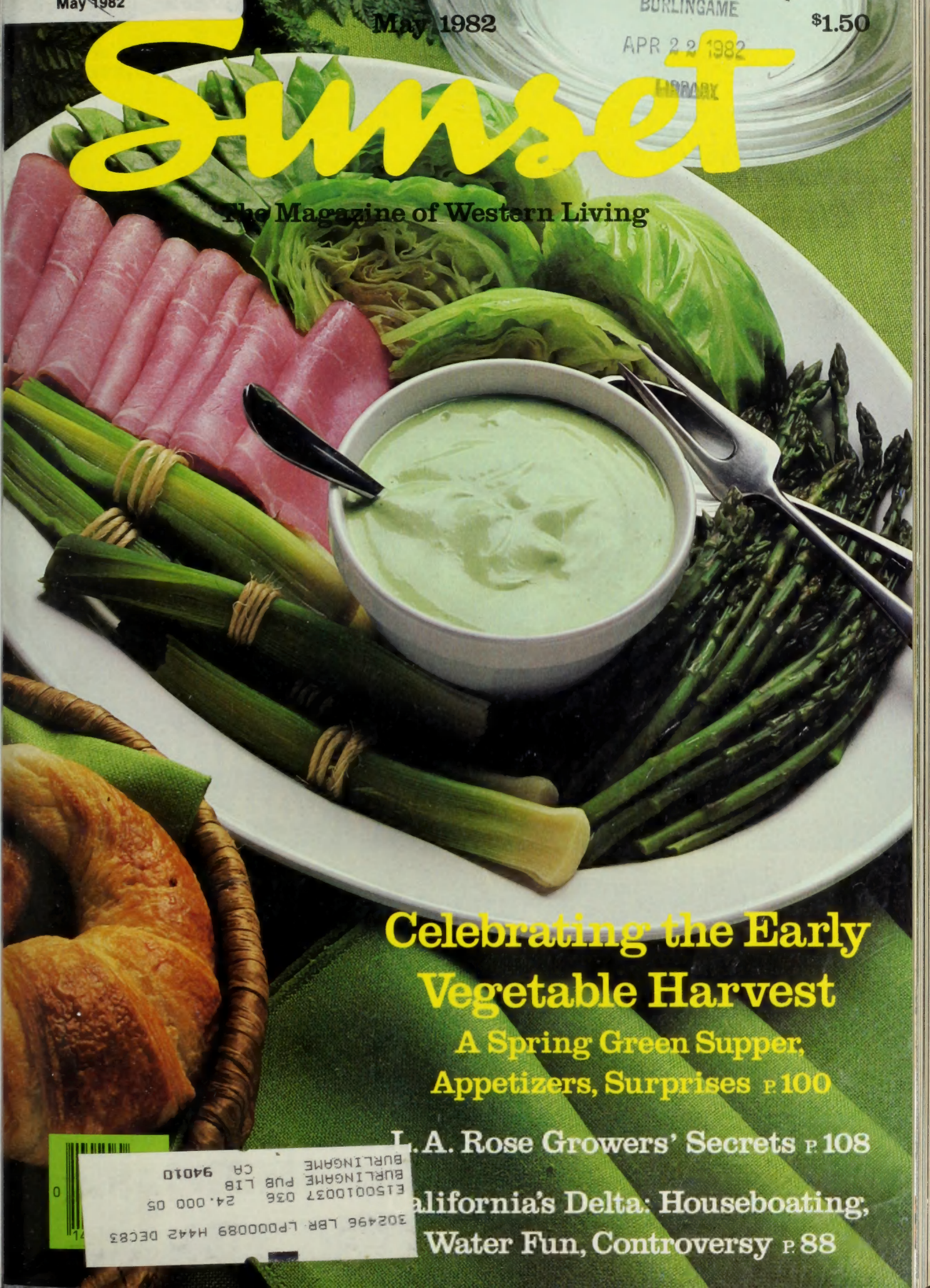
The Magazine of Western Living



Celebrating the Early Vegetable Harvest

A Spring Green Supper, Appetizers, Surprises P. 100

L.A. Rose Growers' Secrets P. 108

California's Delta: Houseboating, Water Fun, Controversy P. 88

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Sunset* The Magazine of Western Living*

THE PACIFIC MONTHLY *

Central Edition Feature articles for May 1982

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The Cover Story

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The cool greens of spring are captured in the cover supper platter of asparagus, leeks, cabbage, and edible pod peas with ham and sauce. For details on this presentation and other colorful suggestions for vegetables, turn to page 100. Photograph by Teri Sandison

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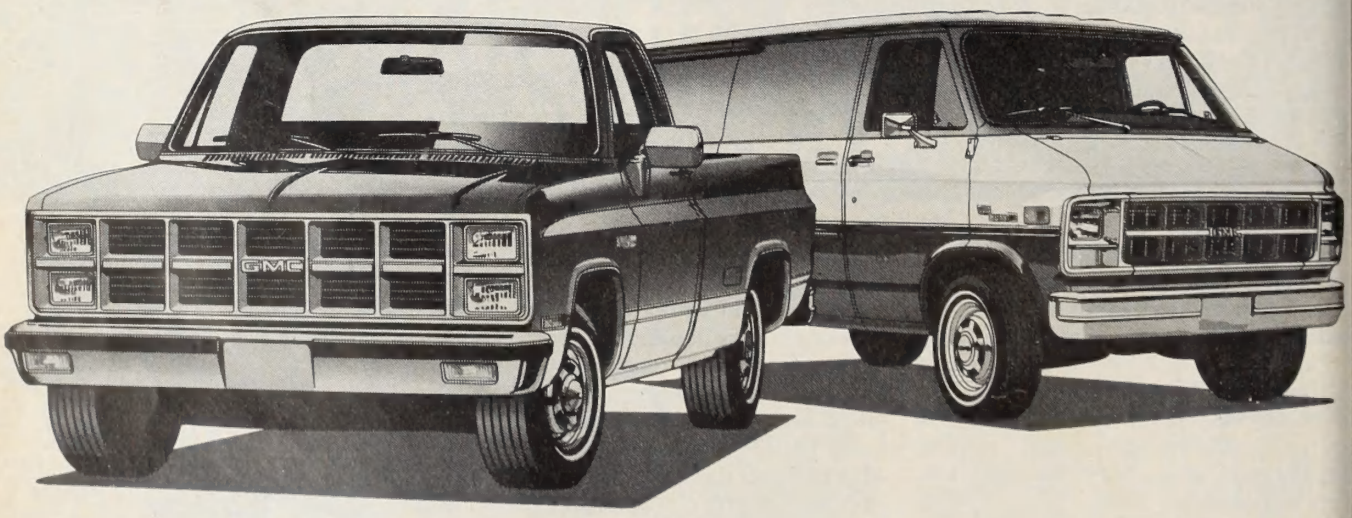

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ERRY FREDRICK

Traversing *a sloping, tree-rimmed meadow, Bootjack Trail offers hikers views to distant San Francisco Bay*

Hike or ride to see Oklahoma! . . . at Mount Tam's outdoor theater

Watching *Oklahoma!* against a backdrop of rolling green hills while picnicking under spreading oaks might draw you to the open-air Mountain Theatre on Mount Tamalpais this month. If it does, a before-theater hike along cliff-hugging trails with views of San Francisco Bay and the Marin headlands could add to the day's pleasure.

The show. In a tradition dating from 1913, the Mountain Play Association will stage *Oklahoma!* in its 5,000-seat amphitheater this year at 1:30 P.M. on four Sundays: May 16, 23, and 30, and June 6; and on Monday, May 31. Advance tickets (open seating) cost $5 for adults, $3 for seniors and those under 18, at the Marin Civic Center box office,

At the theater *well before show time, hungry hikers tackle picnic lunch on tree-shaded stone seats*

RICK LANG

Festooned *with fringe and stars, cowboy sings his lyrics in last year's production of Annie Get Your Gun*

DAVID STUBBS

At sloughside *on Brannan Island, Sunset staff listens as speakers give pros, cons*

The Delta revisited . . . as voting day nears

Sunset is no stranger to the California Delta. An article we published in 1966 is often credited with popularizing houseboating there. Last summer, assistant editor Dick Bushnell began reinvestigating the pleasures and problems of the present-day Delta by boat and car.

Recently, the entire *Sunset* editorial staff converged on Brannan Island to hear guest speakers outline arguments for and against the Peripheral Canal —the most controversial element of Proposition 9, to be decided by California voters in June.

Reading and a personal visit are the best ways to get informed. The report beginning on page 88 can help. □

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(415) 472-3500. Tickets at the gate on play dates cost $1.50 extra. Refreshments will be sold near the theater.

Shuttle bus. Free shuttle buses will run to the theater every 20 minutes from 1 A.M. to 1 P.M. on play dates, from the Mill Valley locations. Take the Stinson Beach - Mill Valley exit (State 1) from U.S. 101 and continue west about ½ mile to the first bus pickup at Almonte Boulevard (Tam Junction). Or bear right on Almonte, right again on Miller Avenue, and right on Camino Alto to Sycamore for additional parking and the second bus stop. Or continue on Miller into downtown Mill Valley and park at the bus depot at Throckmorton and Miller avenues.

Hikes. You could plan a hike to end at the theater, or leave the hiking till late in the afternoon. One possibility: take the shuttle bus, get out at Mountain Home Inn or the Bootjack Picnic Area on Panoramic Highway, and hike the rest of the way.

From the Bootjack Picnic Area, it's 7 mile (about ½ hour) up Bootjack Trail through meadows and redwood groves to the theater.

From Mountain Home Inn, it's 3 miles to the theater by trail (allow 1½ to 2 hours one way), so be sure to catch an early shuttle bus. Take Old Pipeline Trail just north of the inn on the right side of Panoramic Highway past the fire station. Just beyond the blue-green water tank turn left onto Matt Davis Trail; it passes through fields of manzanita and groves of young redwoods laced with streams.

The trail forks in about ¾ mile. Higher slightly steeper Nora Trail gains 500 feet as it takes off to the right and joins Rock Springs Trail at historic West Point Inn (cookies and lemonade sold here); Matt Davis Trail continues less steeply to the left and intersects with Bootjack Trail at the Bootjack Picnic Area (see above).

Another option: The Sierra Club will lead guided hikes to the Mountain Theatre on play dates. Members and non-members should meet at Mountain Home Inn at 9:30 A.M. (limited parking).

If you're driving: to get to the Panoramic Highway from U.S. 101, take the State 1 exit and follow the signs for Mount Tamalpais. Mountain Home Inn is on the right side of Panoramic Highway about 2½ miles from the Shoreline Highway junction. The theater is 5 miles farther; its 800 parking spots fill early.

Free Colorado campground booklet

Campgrounds in Colorado's public parks can get crowded in summer; for information on options at privately run campgrounds, there's a new free guide. The 32-page booklet, *Colorado Camping Directory*, lists 190 campgrounds by town from Alamosa to Walsenburg. Each list-

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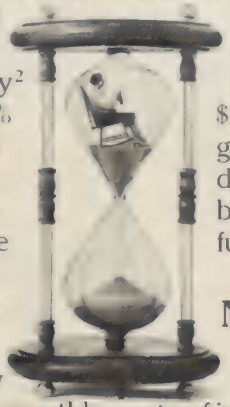

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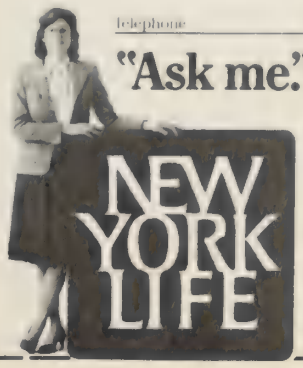

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ing shows camp facilities, number of sites, cost, open dates, telephone and address, plus nearby attractions.

Copies are available at Colorado city chambers of commerce or by mail from Colorado Campground Association, 5101 Pennsylvania Ave., Boulder 80303 (send $1.for postage and handling).

San Luis bed-and-breakfast correction

In our April issue we erred in listing the telephone number for Megan's Friends, a network of private bed-and-breakfast homes in San Luis Obispo County. The correct number is (805) 528-6645.

Bay-Delta model at work . . . this month, watch simulated flooding

Where can you get an "aerial" view of the entire San Francisco Bay - Sacramento River Delta without ever leaving the ground? At the Bay Model Regional Visitor Center in Sausalito. Operated by the U.S. Army Corps of Engineers, the center's Bay-Delta Hydraulic Model covers 47,000 square feet. During May, you can see it in actual use as federal and state agencies test Delta island flooding following simulated levee breaks.

Cutting a yellow swath along one edge of the model is a concrete mock-up of the proposed Peripheral Canal (page 88).

Visitor center hours are 9 to 4:30 Tuesday through Saturday, with guided tours of the model at 10 and 1. For details on upcoming tests, call (415) 332-3870.

From U.S. 101, take the Marin City/Sausalito exit and drive south on Bridgeway; turn left on Harbor Drive, then right on Marinship Way to the center.

In San Mateo, bands aplenty

Trumpets! Trombones! Drum majors and flag twirlers! Any mention of a marching band competition requires at least a handful of exclamation marks, for few events in the world are as loud, happily insistent.

On May 22 in San Mateo, 20 miles south of San Francisco, you can see and hear 30 school bands compete in the NORCAL Marching Band Review. The parade begins at 10 A.M. at 12th and B streets, runs north on B, east on First Avenue, then north on Delaware Street to San Mateo High School. The awards ceremony will be held there at 2:30.

JERRY FRIDR

Feathery shako hats *and intent faces, instruments carried with letter-perfect precision—at the May band review*

For travel planners, a May 1982 check list

Biology and botany on Kauai. From June 14 to 29, a California State University, Chico, program offers visits to private gardens, experimental farms, bird sanctuaries. Tuition for four semester units (optional) is $172; cost of $721 includes round-trip air fare from Sacramento or Los Angeles, twin hotel room, car rental for every four people. The university also offers, from Seattle, a 22-day course on other Hawaiian subjects on Kauai, July 5 to 26, and a literary tour of Ireland, July 10 to 26. Write to CSUC, Chico, Calif. 95929; (916) 895-6105.

Learn French in a chateau. During one or more of three week-long seminars in June you can learn French in Provence. Weekly cost of $980 includes lodging in the medieval castle, two meals a day, instruction. Nonstudents pay $840; children 8 to 12 (different program), $490. Write to Chez Vous, 220 Redwood Hwy., Mill Valley, Calif. 94921; (415) 331-2535.

Orient-Express-style travel in the U.S. In private sleeper and salon railroad cars of the 1930s and 1940s (hooked onto a regular Amtrak train), travelers can make a nine-day luxury "land cruise" across the U.S. Train travel alternates with three stopovers in deluxe hotels in L.A., Tucson, and New Orleans. Price of $2,295 per person covers berths and gourmet meals on the train, and hotel accommodations. Departures are May 16, June 13, September 5, and October 3 from Los Angeles; May 2, 23, June 20, September 12, and October 10 from New York. Write or call your local American Express office or 20th Century Rail Tours, Box 4225, Grand Central Station, New York 10163; (212) 420-1622.

Volga cruise. A 20-day tour offers two nights in Kiev, three nights each in Helsinki, Moscow, and Leningrad, plus a 10-day cruise on the Volga on MS *Maxim Gorki*. Tour leaves late August from West Coast, costs $2,220 to $2,700 for air fare, hotels, sightseeing, most meals. See your travel agent or call March Shipping at (800) 221-3254.

Senior citizen discounts. The 23-page photocopied *Travel Guide for Senior Citizens* lists discounts offered by major U.S. airlines, Western hotels and transportation services, European trains. For a copy, send $2.85 to H. H. Henry, Box 1822, Oakland, Calif. 94611. □

What a travel agent can do for you: Provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

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TWO RIVERS SOCCER CAMP

(A complete soccer training grounds on the Feather River in California's Sierras.)

Specialized 1-2-3 week sessions — Novice to Advanced. Programs specifically designed for:

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Camps

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Girls 8-12 Teens 13-17 Women 18+
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This summer, you can permanently lose 20 to 45 pounds and have fun with new friends! Imagine a slimmer confident new you in the latest fashions. Learn lifelong weight control skills without pills or fad diets. Enjoy over 50 sport, fitness and recreational activities including swimming, tennis, dance, slimnastics, nutrition, make-up, poise, fashions — and fun field trips! Delicious, healthy meals. Personal counseling. Experienced, understanding staff. Medically supervised. Effective home follow-up program. Member American Camping Assoc. **7 LOCATIONS:** 4 or 7 weeks at modern college campuses in San Diego, Los Angeles, Wash. State, Texas, Wisc., New England, Florida.

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Sunset School & Camp Directory

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Camps

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Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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beginning page 272

WESTERN GROCERY DIRECTORY
beginning page 194

SHOPPING CENTER
beginning page 276

Sunset *School & Camp Directory*

Camps

BOYS & GIRLS 8 TO 15 YEARS "A SUMMER OF RANCH FUN"

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Camps

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Have fun while you **lose 20–45 lbs.** this summer and learn how to keep it off. A warm personalized camp with a caring staff. Unique **"Camp Within A Camp"** concept features computer, tennis and theater arts camps in addition to exciting sports, fitness and recreational activities. Medically supervised person-to-person weight loss program. Great facilities in California, Texas, Florida and Michigan.

GIRLS 8-12 TEENS 13-16 LADIES 17-29

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- learn the BASIC programming language
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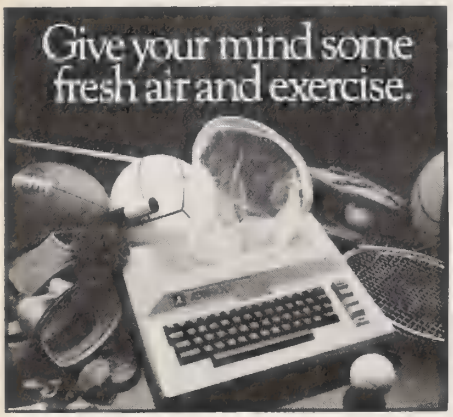
Camps



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Coeducational—Grades 10 to 12
Resident and Day

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July 12 – July 22 Hawaii

Option of first 4 weeks in Monterey, last 2 weeks in Hawaii, or entire 6 week program.

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Camps

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Program includes: our own well-trained string of western horses; vaulting on horseback (exciting); swimming; tennis; archery; soccer; kid's cooking; woodshop; ceramics; farm; barn theatre. A Joyous Christian Camp.
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Camps

Western Association of Independent Camps

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Sunset School & Camp Directory

Camps

Western Association of Independent Camps

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★ Mini Bikes
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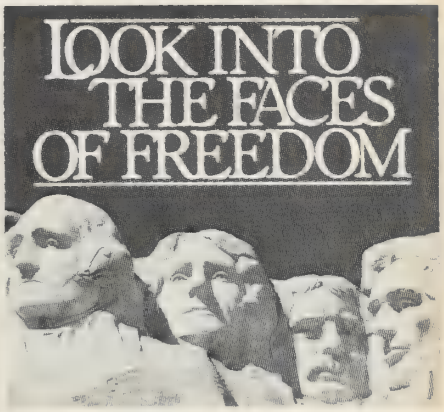

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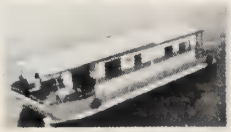

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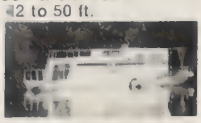

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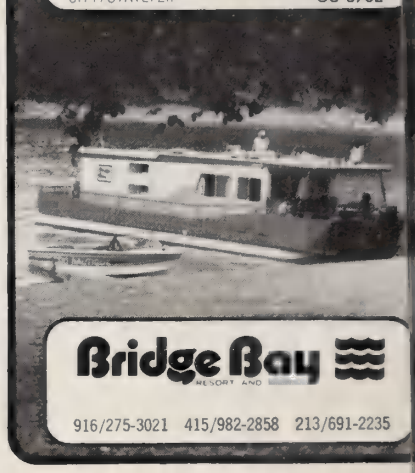

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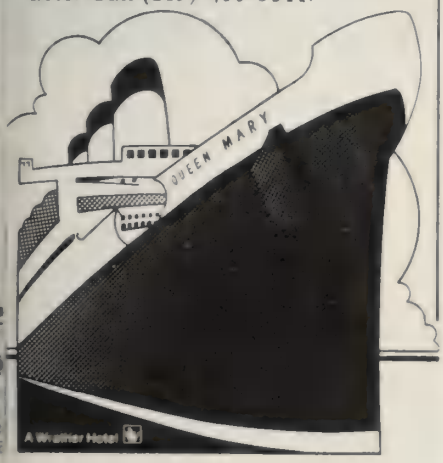

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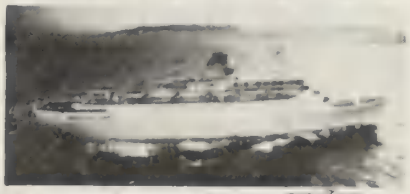

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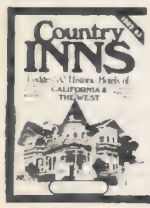

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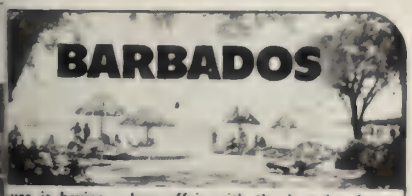

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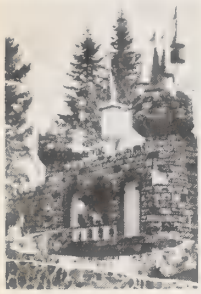

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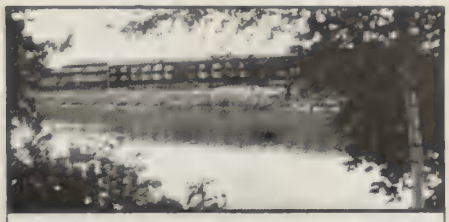

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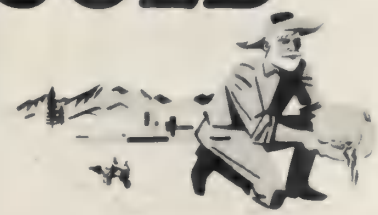

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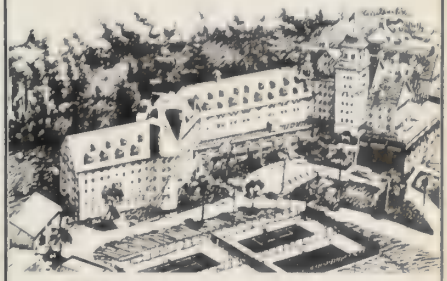

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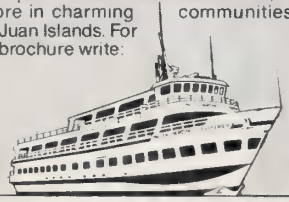

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Corinthian capitals *on museum façade resemble those in an 1850 drawing by Alfred Norman, part of the Pompeii exhibit now at the Getty Museum*

Pompeii comes to Malibu's Getty Museum

You enter a time machine when you step into the garage-lev elevator beneath the J. Paul Getty Museum at Malibu, Cal fornia. It transports you from a 20th-century parking stru ture to a Classical villa on the slopes of Mount Vesuvius ju before the famous eruption of A.D. 79. You arrive on a marb terrace: ahead lie bubbling fountains, long porticoes, state courtyards, and views of the sea.

It's a perfect setting for the museum's spring show. Title *Pompeii: XIX-Century Drawings and Watercolors from Th Ecole des Beaux-Arts, Paris,* the exhibit (April 16 throug June 25) includes more than a hundred sketches, scale drav ings, and elaborate reconstructions-on-paper of Pompeii ancient art and architecture by some of France's most gifte architects. Pompeii was a popular subject because its wel preserved ruins offered a relatively complete picture of Roma life, and tales of overnight destruction stirred the imaginatio

You'll see similarities between the drawings and the museu complex; the Getty building is based on a villa at Hercula neum, an ancient town near Pompeii which was buried at th same time. Even the grounds are meant to approximate ga dens that would have existed 2,000 years ago.

The Pompeii show occupies only a small part of the museun so take time to visit the extensive permanent collections a well. You'll find Greek and Roman antiquities, Renaissanc and Baroque painting, and French decorative art.

The museum is open 10 to 5 Tuesday through Saturday unt June 12, thereafter Monday through Friday. Gallery talks o the Pompeii drawings are scheduled for 2 P.M. each Thur day. Admission is free, but parking reservations are necessar call (213) 454-6541 at least a week in advance. To reach th museum from Santa Monica, take the Pacific Coast Highwa north about 5 miles and turn right just before State Highwa 27. The entrance is marked with signs, but it's a very shar right turn. For information on public transport from Sant Monica, call (213) 781-5890.

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Serpentine *boxwood hedges alongside Doric columns and long, shallow pool in main courtyard are patterned after similar features in Roman villas*

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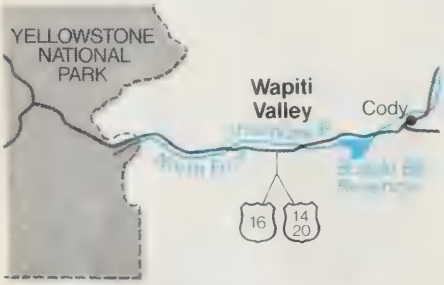
Husky *rainbow trout was hooked in North Fork Shoshone River near Newton Creek*

DOUG AND BEV MCNAIR

Rugged palisades *backdrop open-walled Forest Service visitor center, 20 miles east of Yellowston*

Wyoming's ruggedly beautiful Wapi
... next door to Yellowstone



Three *U.S. routes become one as they follow North Fork Shoshone out of park*

In open meadow, *young rider enjoys a brisk trot on dude ranch horse*

A century ago, when sightseeing there was done by stagecoach, Teddy Roosevelt called Wyoming's Wapiti Valley "the most scenic 50 miles in America." Though more accessible today, this ruggedly beautiful valley has lost little of its visual appeal. It also offers plenty of opportunities for fishing, camping, hiking, and riding without the crowds of neighboring Yellowstone National Park.

Winding eastward from the park boundary, U.S. Highway 16 (also signed U.S. 14 and 20) traces the old stagecoach route 53 miles to Cody. Following the North Fork Shoshone River, the highway takes you through miles of classic western landscape. Cliffs and spires of ocher-colored volcanic stone, fluted and terraced by erosion, rise like sculpted balustrades above the valley floor.

You don't have to stray far from the highway to see impressive displays. Try the Forest Service visitor center 22 miles east of the park boundary, or Goose Rock viewpoint 3 miles farther east. If possible, stop in late afternoon when the sun brings out the warm cinnabar tones of the volcanic breccia.

Shoshone Indians once hunted herds of wapiti (American elk) in the river's steep-walled side canyons. Today, a short detour up several of these gulches will bring you to a guest ranch. Between Yellowstone and Cody there are 15 lodges, ranging from simple cabins to full-service dude ranches. One of these, Crossed Sabres Ranch, is reputedly the West's oldest dude ranch. Located 9 miles of Yellowstone, it was built around as a stagecoach stop for travelers bo for the park. (Some guest ranches take "drop-ins," but it's wise to res rooms in advance.)

Twelve Forest Service campgrounds nestle along the river, many clos lodge restaurants where the cu ranges from European to ranch s you can also ask the chef to prepare own fresh-caught trout. (To sample t cookery at its best, try the UXU Lo near Newton Creek Campground.)

The North Fork Shoshone offers sistently good fishing, but is not as known—or as crowded—as some Wyoming's other blue-ribbon t streams. Cutthroat and planted rain are plentiful, and in spring, rainbows pounds journey upstream from Bu Bill reservoir. Tributary streams are productive. A five-day license for ou state fishermen costs $10.

The river also offers good rafting; t can be arranged with outfitters in Co

If you'd like to explore the valley on or horseback, rangers at the Forest vice visitor center will recommend tr If you have time, they suggest ei the 8-mile trail to Blackwater Nat Bridge or the 5-mile walk to Cla Mountain. Both start near Blackw Lodge, 15 miles east of the park. M guest ranches offer back-country r for drop-in visitors.

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MICHAEL THOMPSON

Hell's Corner Gorge *on upper Klamath contains two major whitewater rapids; Satan's Gate (far left) and longer, sinuous Hell's Corner (above). River runners scout it here from bluff*

Braced by a blast *of foamy-cold Klamath water, bow riders hang onto raft's safety line*

Little town *of Ke near start of raft tr lies on State about 15 miles southwe of Klamath Fa*

Whitewater adventure on the upper Klamath

If you don't mind traveling some distance to quench your thirst for whitewater adventure, an interstate rafting run on the upper Klamath River may well satisfy you. A recently rediscovered stretch of river between Keno, Oregon, and Copco Lake, California (some 350 miles north of San Francisco), offers rapids comparable to those on the best Sierra runs.

While the *lower* Klamath near Happy Camp has been a favorite of river runners for decades, the *upper* Klamath went unnoticed by whitewater enthusiasts until a few years ago. Today, from May to fall, a fleet of outfitters lea one- to three-day raft trips on a 17-mi segment.

Rip-roaring rapids

Early loggers and ranchers reported navigated Klamath Canyon aboard lo

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rafts before the turn of the century. [illegible] it wasn't until around 1979 that its m[illegible] rapids—some 40 of them—were map[illegible] by rafters riding inflated rubber craf[illegible]

Perhaps the most pleasurable rap[illegible] "Caldera," a long, churning roller coa[illegible] of white water. The most challen[illegible] one is appropriately named "Hell's [illegible]ner." Nature has fashioned this rapi[illegible] vengefully as the most sadistic [illegible] course designer: it is a twisting, [illegible] mile-long shot guarded by boiling w[illegible] and sharp volcanic rocks.

The country flanking the canyon [illegible] wild-looking ranchland studded [illegible] second-growth forest. Occasionally, [illegible] encounter grazing cattle and steelh[illegible] fishermen. On a late spring trip, we [illegible] many ospreys and great blue herons [illegible] well as legions of seagulls who com[illegible] feast on the river's crayfish. We pa[illegible] in a rainy mist to explore the tum[illegible] down log remains of Frain Ranc[illegible] 19th-century pioneer settlement.

Seek an experienced outfitter

This is not a do-it-yourself river. [illegible] *Sunset* team saw some feckless pri[illegible] rafters brush with tragedy more [illegible] once.) Run the upper Klamath only [illegible] a veteran outfitting firm that holds [illegible] proper Bureau of Land Managem[illegible] permit and the required Oregon Ma[illegible] Board certification. An associatio[illegible] some 30 qualified firms can send y[illegible] list of its members: write to Klam[illegible] Canyon River Outfitters, Box 938, R[illegible] ding, Calif. 96099; (916) 243-3091.

Cost runs about $110 per person f[illegible] one-day trip (with lunch) or $180 f[illegible] two-day camping trip (including me[illegible] Three-day trips ($250) may seem drag[illegible] out. Reservations and deposits are [illegible] essary. Outfitters are required by [illegible] BLM to carry liability insurance.

Your outfitter will advise what gea[illegible] bring, tell you the trip meeting pl[illegible] and suggest transportation arrangem[illegible] Convenient rendezvous towns are [illegible] land, Oregon (an hour's drive f[illegible] Copco Lake), and Yreka, Californi[illegible] 45-minute drive from Copco).

MICHAEL THOM[illegible]

Guitarist-guide sings *ballad as campers warm up before hitting sleeping bags*

The summer of 82°

82°F. That's the average mean temperature in the summer in the American paradise. With trade winds blowing almost without exception from an easterly direction. (Now that doesn't sound mean at all!) See your travel agent.

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Widow-maker drill, *once used to bore into rock, now guards portal to Black Bear tunnel of Le Roi mine*

Hardrock mine touring in B.C.

The gold strike of 1890 in Rosslan British Columbia, brought prosperity an 42 saloons to this tiny town 125 mil north of Spokane, Washington.

Le Roi mine was the kingpin: before played out in 1929, some $30 million i gold was taken from its 85 miles of tu nels. Today, Le Roi is the only hardroc mine in British Columbia open fo guided tours, offered from May 15 t October 1.

Tours begin aboveground in the Ross land Historical Museum, where you' see mining equipment and memorabili Then you're given a hard hat and blanke before descending into Black Bear tun nel. Down below it's cold (37°) and dam but well lighted.

Half-hour tours run every 20 minute from 9 to 5 daily; cost is $3 for adults $1.50 for ages 7 to 15. Rossland is abou 10 miles north of the U.S. border o B.C. Highway 22, reached from Spo kane via U.S. 395 and Washingto Highway 25.

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People choose the 240 D Sedan because–like Mercedes-Benz engineers–they believe that functional efficiency seldom comes from shortcuts.

The 240 D is powered by one of the *saner*-sized engines in its class: a four cylinder diesel engine, displacing just 2.4 liters.

Few engines of any size are more expensively machined and balanced. (All pistons and connecting rods, for instance, are individually balanced as a set.) Such precision helps the 240 D's engine face the prospect of long, hard, heavy use unafraid.

This power plant is so sophisticated in design that a built-in device adjusts the fuel injection rate *barometrically*, to help the 240 D run efficiently at 7,000 feet or at sea level.

Yet it is so simple in operation that for its first 10,000 miles, total scheduled maintenance is about three hours.

$558 for 10,000 miles?

The 240 D lets you choose between maximum convenience and maximum mileage with four-speed automatic or four-speed manual versions.

Even the automatic hardly guzzles fuel. In fact, at an average cost of $1.34-per-gallon for diesel fuel in the U.S. and with the EPA mileage figure of 24 mpg estimated,** the automatic 240 D should take you 10,000 miles for about $558.

No gadgets, no baubles

The 240 D is engineered to take the strains of high mileage and hard driving in stride.

The car's lack of shimmy and shake on ugly roads owes much to its rigid, welded steel fuselage–a unit body.

The efficiency of tenacious roadholding is standard.

Its four-wheel disc brakes (with 456 sq. in. of swept area) could stop a vehicle many times its size and weight.

The 240 D is not shy of pot-holed roads, humpbacked roads, or twisty roads. Sold as it is in 90 countries–few blessed with superhighways–it could not *afford* to be.

Gadgets and baubles are absent. What could these add to efficiency? An electronic cruise control *is* provided, allowing you to hold a steady 55-mph–without fuel-wasting ups and downs.

Because the 240 D is meant to take efficient care of its occupants, it incorporates 120 safety features. Many of these satisfy Federal laws. And many more are incorporated to satisfy the Mercedes-Benz obsession with safety.

Robots, hands, eyes

A well-built car is usually a more efficient car. It is for this reason that Mercedes-Benz lavishes such care on the 240 D's construction and finish.

It does not feel tinny. The body is not bolted together but fused together as a unit structure–4,786 welds strong.

Robots precision-weld the body. Since robots can't smooth body seams and joints, skilled workmen do.

The efficiency of value

The 240 D is a sensible but not a Spartan automobile. Even air conditioning is standard, and the interior is accented with a traditional wood grain that is created by *real* wood.

Mercedes-Benz cars in America have written such a legend of retained value that this must be considered alongside that $23,000 price tag. These cars–including the 240 D–have been shown to retain *80 percent of their original value* after the first three years.

In this category, as in others, there is simply no other automobile like the Mercedes-Benz 240 D Sedan. At $23,000 or any price.

*Approximate suggested advertised delivered price at port of entry.

**EPA estimate for comparison purposes. The mileage you get may vary with trip length, speed and weather.

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Engineered like no other car in the world

Six watershed trails, three of them lakeside

DAVID STUBBS

A pair of joggers *use the Recreation Trail paralleling shimmering San Andreas Lake. Beneath picnicker's site on San Andreas Dam (below) lies the San Andreas fault*

Junipero Serra Freeway *(Interstate 280) curves away from hikers on cross-country course in Belmont Hills*

Where San Francisco gets its water . . . splendid spring hiking, biking, riding

Pulgas Water Temple, *built in 1937, marks where flow of Tuolumne River's water from Hetch Hetchy in Sierra enters Crystal Springs reservoirs*

Whizzing along Interstate 280 south of San Francisco between San Bruno and Woodside, motorists steal westward glances of the forested Santa Cruz Mountains and the serene valley reservoirs nestled below: San Andreas Lake and Upper and Lower Crystal Springs reservoirs.

Few drivers know they're looking at the 23,000-acre San Francisco Peninsula Watershed, designated in 1933 as the San Francisco State Fish and Game Refuge. Fewer still know how to gain access to this tranquil scenic area.

Maintained by the San Francisco Water Department, much of the watershed property runs through the San Andreas Valley (the San Andreas fault, named for the valley, runs under the reservoirs). While the watershed's primary purpose is to produce and store water for San Francisco and San Mateo counties, some recreational use is allowed.

Hikers, bikers, joggers, and equestrians will find pleasant trails (open dawn to dusk), some paralleling the lakes, some high on rolling hills with sweeping views.

This month, as surrounding grassy hills begin to fade from spring green to summer brown, temperatures on watershed land should be mild, with patchy fog usually dispersing by midmorning. Thanks to copious winter rainfall, wildflowers should be abundant, especially in the southernmost areas.

Visitors need to heed some rules. To protect water quality, no public contact with water is permitted; no one is allowed within 300 feet of the reservoirs. To protect abundant wildlife (deer, bobcat, fox, and birds including geese and quail), no dogs are allowed on any watershed land. From June 30 to November 30, no open fires or smoking are allowed here due to its designation by the state as a "hazardous fire area."

Six watershed trails

We list the trails north to south; you'll find roadside parking near the entrances.

Recreation Trail. Hikers, bicyclists, joggers, and equestrians who use this paved 2-mile trail take in delightful views of San Andreas Lake. Fencing along the trail isn't overly distracting, and you'll see plenty of pampas grass and long-stemmed prickly teasel. The north end of the trail is on Skyline Boulevard (.6 mile south of San Bruno Avenue); look for the sign "Recreational Trail to Larkspur Drive and Hillcrest Boulevard." The southern trail entrance is at the west end of Larkspur in Millbrae.

Hillcrest Trail. Almost directly across from the Recreation Trail entrance on Larkspur Drive and up a steep embankment is the northern entrance (unmarked) to Hillcrest Trail. This narrow ⅔-mile trail, for walking, jogging, or horseback riding, winds through Monterey pine forest as it parallels I-280. Closely fenced on both sides and within earshot of freeway traffic, it is nevertheless a good connector between the Recreation Trail and Sawyer Camp Road (see below).

Southern entrance to Hillcrest Trail is adjacent to the serpentine-and-bronze historic marker at the west end of Hillcrest Boulevard. (Bicyclists wishing to ride between the Recreation Trail and Sawyer Camp Road should use Skyline Boulevard.)

Sawyer Camp Road. A county road for more than a hundred years but now closed to car traffic, this 6.3-mile paved trail is a real find for bicyclists, roller-skaters, joggers, and walkers. Winding through oak woodland, the trail is gently sloping except for the steeper northernmost 2 miles. You'll cross the San Andreas Dam (an earthen dam that survived the 1906 quake) and pass the Jepson Laurel, now the largest tree of its kind in California. The northern trail entrance is across from Hillcrest Trail at the west end of Hillcrest Boulevard in Millbrae. Southern entrance is at the intersection of Skyline Boulevard and Crystal Springs Road. Both entries are well marked.

Sheep Camp Trail. This 1-mile gravel trail

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for jogging, hiking, and horseback riding starts at the northernmost point of the Crystal Springs Cross-Country Course, winds downhill under I-280, and ends on Cañada Road ½ mile north of the Pulgas Water Temple. You'll get a sweeping view of the reservoirs from the highest point of this trail. From I-280, take State 92 east to Ralston Avenue, exit on Ralston toward Belmont, turn right on Hallmark Drive, right again on Benson Way, then left on St. James Road for .4 mile; the trail entrance will be on your right.

Crystal Springs Cross-Country Course. Joggers and walkers on these 500 open acres east of I-280 in the Belmont hills will be rewarded with a magnificent clear-day view: the Crystal Springs reservoirs, the city of San Francisco, the East Bay hills, and beyond to the southern tip of the Bay. Loop trails are marked for distance. From I-280, take State 92 east to Ralston Avenue, exit on Ralston toward Belmont, turn right on Hallmark Drive; trail entrance is on the west side of Hallmark between Paddington Court and Wakefield Drive.

Raymundo Trail. On the southernmost portion of watershed land, this 2.2-mile jogging, hiking, and equestrian trail parallels Cañada Road, then jogs toward the hills. Popular with Woodside area equestrians, this dirt trail connects at the north end with the informal roadside trail along Cañada. The northern entrance to Raymundo Trail (marked by hiking-equestrian sign) is on Cañada, .4 mile south of Edgewood Road. The southern entrance (unmarked) is at the end of Runnymede Road, reached from Cañada, about 2½ miles north of Woodside Road.

Bicycle Sunday

In addition to these six trails, bicyclists and equestrians frequently ride the roadside trails paralleling Cañada Road between Woodside Road and Ralston Avenue. An especially good opportunity for cyclists is "Bicycle Sunday"—the third Sunday of each month April through October—when a 3½-mile section of Cañada Road is closed to car traffic between Edgewood Road and Ralston. This gently rolling segment is smoothly paved; there's plenty of car parking at both ends.

Two limited-access trails

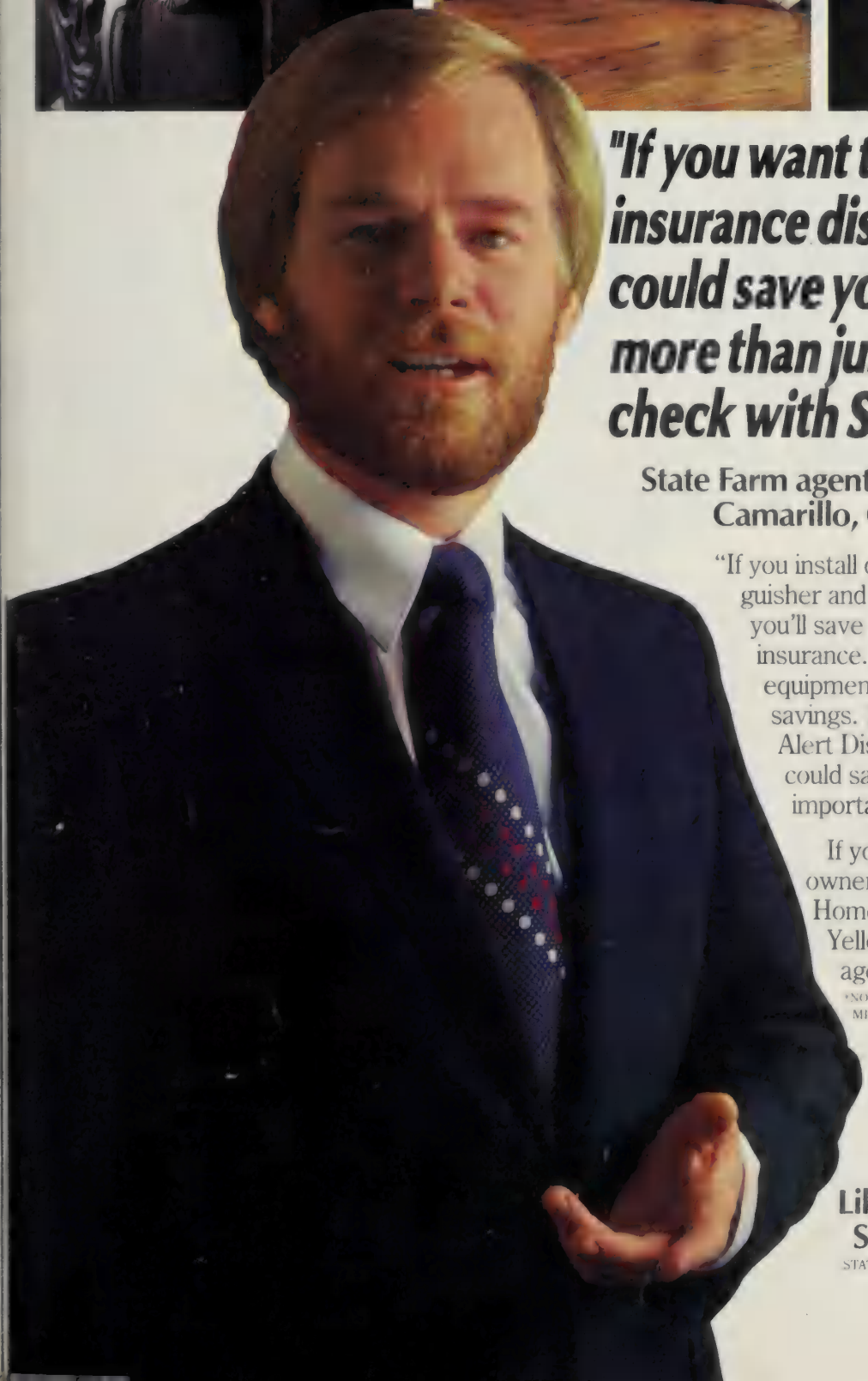
On the western fringe of the watershed, equestrians can ride for miles along service roads on a permit-only basis. Permit applications are available by writing to Gilbert Bendix, Manager of Suburban Operations, San Francisco Water Department, 1000 El Camino Real, Millbrae, Calif. 94030. Enclose a stamped, self-addressed envelope.

Also in the western portion of the watershed is a 1½-mile science trail, with 17 botanical and geological stations, open for day use by school groups and other organizations carrying proper insurance. To arrange entry and obtain a key, write to Gilbert Bendix, address above.

Pulgas Water Temple, Filoli Center

The grounds of Pulgas Water Temple are open daily 8 to 4:30 for strolling, but the parking lot is closed indefinitely.

Now a property of the National Trust for Historic Preservation, the stately Filoli mansion and gardens are open for tours by appointment only. Admission is $5 per person. For reservations, call (415) 364-2880 Monday through Friday between 10 A.M. and 2 P.M.



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Along *the Bow River, trail includes a "passing lane"—the asphalt isn't wide enough for all the traffic. It's going to be widened to 8 feet*

Miles of trails along Calgary's rivers

What do businessmen, bikers, and babies in strollers have in common? In Calgary, they're all apt to be found enjoying the city's popular riverbank trails.

With nearly 65 miles completed to date, it's possible to walk, run, jog, bike, or just amble all over the southern Alberta city. Even winter doesn't deter outdoor types; they just use the trails for cross-country skiing.

For the most part, pathways follow Calgary's two rivers, the Bow and the Elbow, and run through parks or greenbelts. If you're visiting the city, you can take along a picnic and give the system a workout. For bicyclists, 70 miles of additional routes follow lightly traveled streets.

From downtown, head north to Prince's Island and its park in the Bow River; backtrack to the south bank, then walk east to Fort Calgary. Continue to St. George's Island with its zoo and dinosaur park, and on to the Inglewood Bird Sanctuary, where geese, ducks, and other wildlife can be seen. Though you're never far from traffic, the path insulates you from its noise and disruption.

In southwest Calgary, the pathway passes near Heritage Park (see *Sunset*, July 1980) and around Glenmore Reservoir on the Elbow River, a tranquil area with good views of the Rockies (but also open to prairie winds). Along the trail at the southern edge of the city, Fish Creek Provincial Park has more than 1,500 acres set aside from encroaching housing development.

Signs make trails easy to locate. Parking, except downtown, should not be difficult. You'll find detailed maps of the system at city hall, parks and recreation offices, libraries, and sporting goods stores. □

Leaving downtown Calgary, *trail becomes bridge to Prince's Island, set aside as park*

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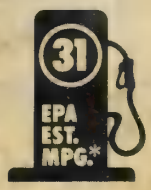
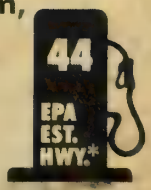


And both offer plenty of room, with plenty of options, like power windows, power steering, AM/FM cassette tape deck, cruise control. The works.



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Dragons writhing *on its roof, red-and-gold Koushi-byo reflects shrine styles of South China*

Above Nagasaki Harbor, *1860s British-built houses are part of Glover Garden*

Hill walking in Nagasaki

Hugging the curve of a deep, finger-shaped harbor on Japan's southwestern island of Kyushu, Nagasaki reflects a blending of cultures that dates back to its 16th-century beginnings as an international trading port. For hundreds of years, this port on the East China Sea flourished under the influence of visiting Europeans and Chinese.

Though many of these buildings were destroyed or severely damaged by the atomic bomb dropped August 9, 1945, most have long since been rebuilt or restored. On a half-day's walk of less than a mile through the Minami Yamate and adjacent Oura areas, you can visit so notable original or restored buildi (see map, next page).

Your walk will likely begin with a minute taxi ride from Nagasaki Stat or the city center (where most visit stay) to the French-built Oura Cathed Around here, Chinese temples point the sky, near the former hilltop homes British traders. Cobbled streets cut th way up slopes past jagged-roof Du houses, and canals flow beneath arch bridges.

If you don't speak Japanese, the l guage barrier will be your biggest ch

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Dotted lines *suggest a walk through historic Nagasaki neighborhood. Numbers indicate seven stops along the way, as described in the text*

lenge in getting around. Have someone at your hotel travel desk write the places you will be visiting in Japanese characters for you to show to the cab driver. (Another aid is *The Tourist Handbook: Practical Ways to Relieve Language Problems,* which lists common questions in English with Japanese character translations. For a free copy, write to Japan National Tourist Organization, 173 Post St., San Francisco 94115.)

Oura Cathedral (#1 on our map) is the oldest wooden Gothic-style church in Japan. Known to locals as "Furansu dera" (French Temple), it was completed in 1865 under the guidance of French missionary Father Petit Jean and contains relics of early Japanese Christians. It's open from 8 to 6 daily. Admission is 150 yen (about 65 cents).

Turn left at the bottom of the cathedral steps, and walk to a second set of steps a few yards up on the left side of the road. These lead up to Glover Garden, a cluster of former British traders' houses surrounded by terraced gardens with koi ponds, waterfalls, and tree-shaded paths (open daily 8 to 6). Admission is $2 for adults, 50 cents for children under 12. At the ticket booth, be sure to pick up the pamphlet *Glover Garden in Nagasaki;* it's in Japanese, but the pictorial map will help guide you.

From the booth, you walk up the steps and ascend two covered escalators emerging just below the white, two-story Dock House (#2). Now a small museum, it offers superb harbor views from its second-floor balcony.

From Dock House, continue down past the large koi pond to the Ringer House (#3) and just beyond it the Ault House (#4). Built in the 1860s by British colonists, the houses contain some original furnishings.

Just down the hill from the Ringer House

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this Idaho, that I
didn't know about."
Ernest Hemingway, 1939

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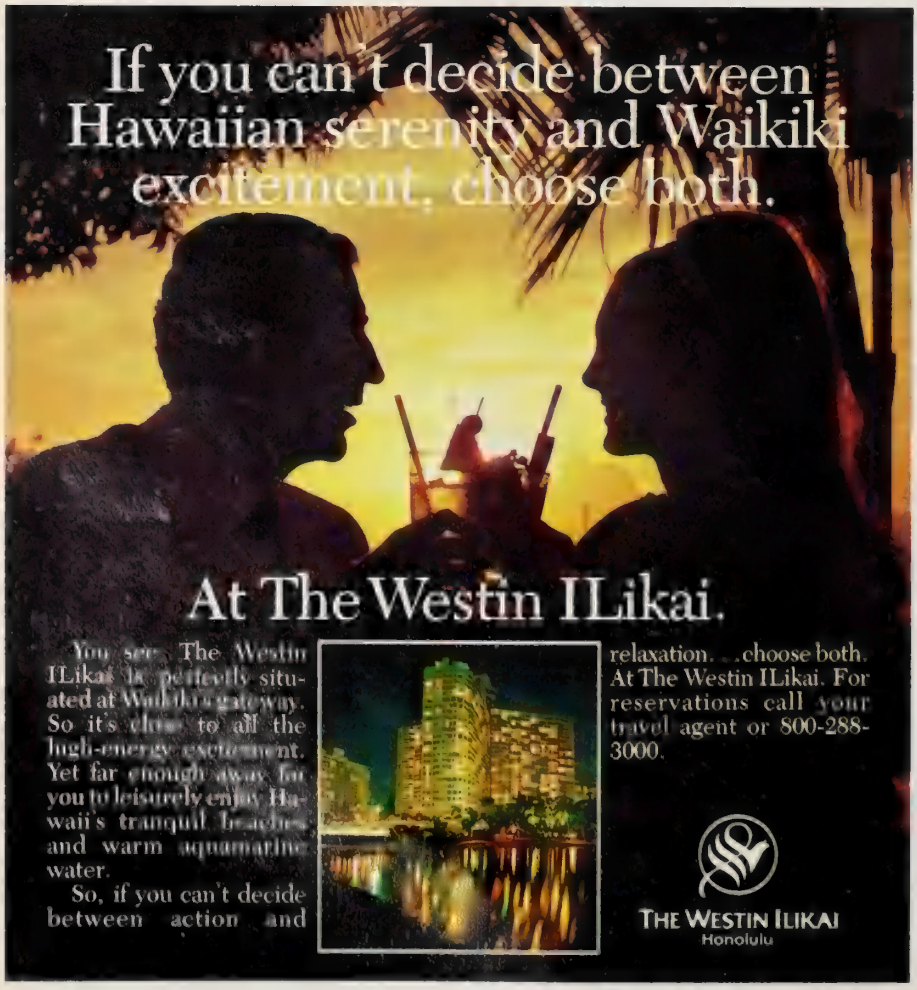

is the original Glover Mansion (#
built by British weapon-seller Thom
Blake Glover. Legend places the Glov
Mansion and garden as the settings f
Puccini's opera *Madama Butterfly*,
as you gaze beyond the gardens to t
island-studded mouth of the harbor, y
might well imagine Cio-Cio-San watc
ing for Lieutenant Pinkerton's retu
Across the harbor, you'll see the bustli
Mitsubishi Shipyards, one of the worl
biggest producers of ships.

Down the hill to the left of Glover Ma
sion is Jurokuban-kan Mansion (Fes
vals Museum) (#6), which displays c
nate miniature festival boats and a go
dragon used during local *ja-odori* (drag
dances). It's open daily 8 to 6.

From the museum, walk down Orand
zaka (Dutch Slope) past tourist sho
retracing your steps to the bottom of t
hill. From here, it's a 4-minute cab ri
or brisk 10-minute walk to the Kousl
byo or Confucius shrine (#7). Original
built in 1893, the shrine's ornate, brig
red buildings house a museum of Chine
art and artifacts, and a shop run by t
People's Republic of China, where y
can buy silks, baskets, and other han
crafts at modest prices. Koushi-byo
open daily 8:30 to 5 for a small fee.

Then return to Oura Kaigandori, whe
you can catch a taxicab back to the ci
center.

Sobering reminders of 1945

You may also want to visit Peace Park
the Urakami Area just northwest of Na
asaki Station (about 20 minutes by c
from Glover Garden). Marking the sp
where the atomic bomb fell, the tre
shaded grounds contain sobering r
minders of the city's destruction th
summer day: the International Cultu
Hall (also called the A-Bomb Museum
open daily 9 to 5, exhibits blast rei
and photographs; a single stone colun
topped with weathered statues is all th
remains of the original Urakami Chur
(since rebuilt nearby); and the 32-foo
tall bronze Peace Statue erected in me
ory of the victims.

By plane or train to Nagasaki

Nagasaki is 2 hours by air from Tok
(about $132 one way), plus 1 hour by
special express shuttle bus (about $
from the airport to Nagasaki Station.
train, it's 9½ hours from Tokyo
Japan National Railroad's Shinkans
Hikari, with a transfer at Hakata to JN
limited express. Advance reservatio
are advised.

Japan Air Lines and the Japan Trav
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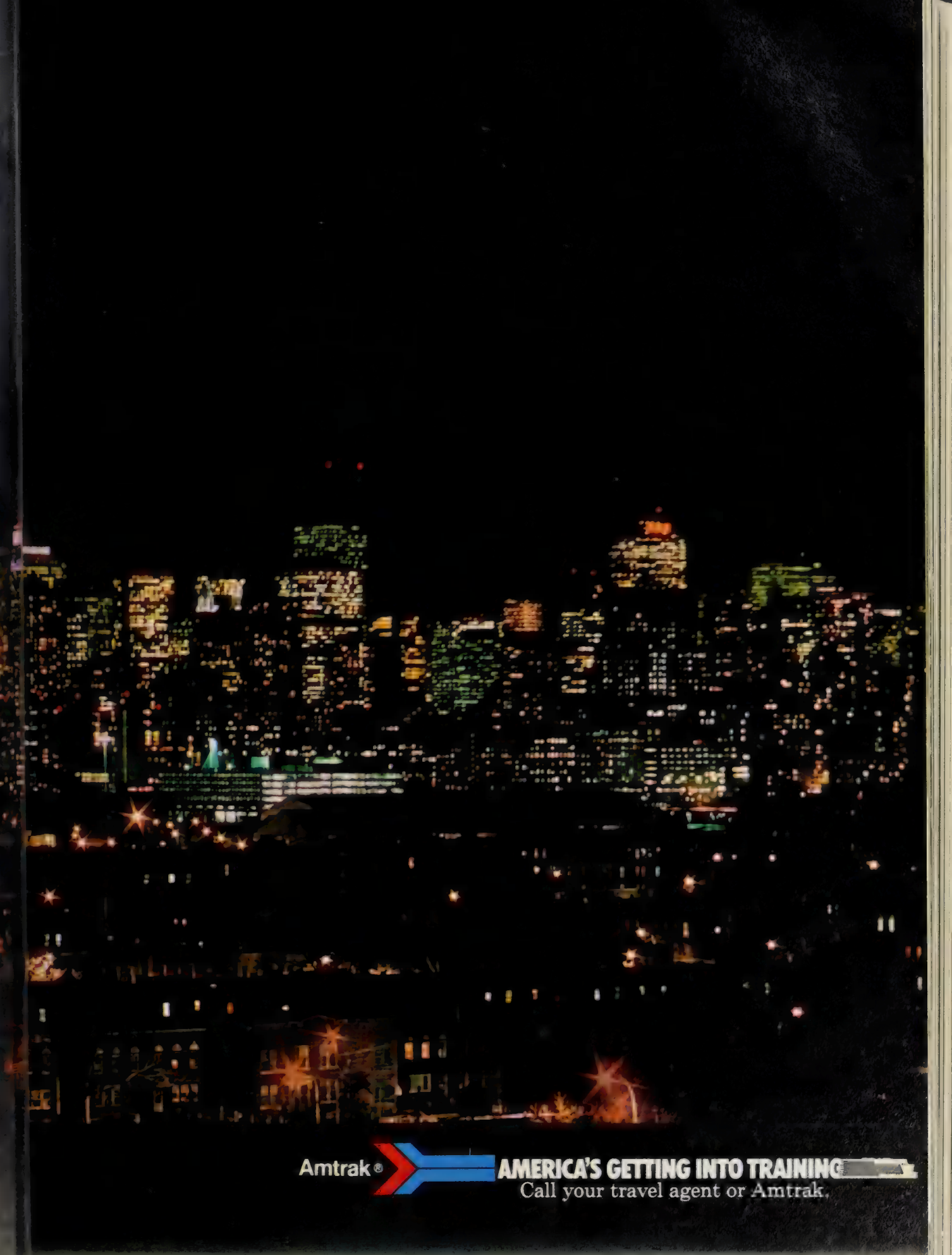
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Bound by protective cables, *petrified redwood stumps are ancient but delicate*

SUSAN BE

Petrified stumps and volcano history near Colorado Springs

Ranger explains process *by which living trees might become petrified far in the future*

Youngsters study *shale composed of striped layers of compressed volcanic ash*

Giants from another age, the petrified stumps of long-extinct redwood trees are the silent centerpieces of Florissant Fossil Beds National Monument. These stone monoliths, plus thousands of other fossils found here, give a pretty accurate impression of what this part of Colorado was like 35 million years ago.

During the Oligocene epoch, lava flows from nearby volcanoes created a lake in the valley. Continued ashfalls and devastating mudflows (similar to recent activities of Mount St. Helens) smothered forests and killed creatures which became imbedded in the ooze around the lake. The fine consistency of this ash and the gentleness of the process produced one of the most extensive deposits of delicately detailed fossils in the world.

The park visitor center displays a good selection: foliage shows individual needles and veins in leaves; fragile w and bodies of insects are clearly etc on shards of shale.

A short trail leads you past the petri stumps of *Sequoia affinis*. Interpre talks at the visitor center and a gui ¾-mile hike to an 11½-foot-diam fossil stump are offered daily; call (3 748-3253 for times.

Florissant National Monument is o daily mid-May through September f 8 A.M. to 7 P.M. (shorter winter hou admission is free. Its shady picnic a (no camping) makes a fine lunch s From Colorado Springs, head west U.S. Highway 24 about 35 miles to town of Florissant, then turn south the gravel road to the park and driv miles to the visitor center. (From park, it's 18 more miles to the hist mining town of Cripple Creek.)

SUN

If it swims, roars, dives, slithers, flips, snarls or splashes, you'll find it in San Diego.

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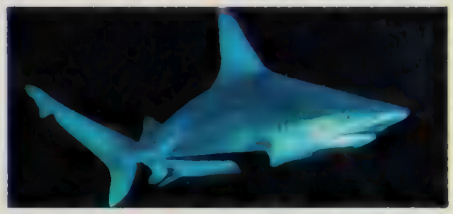
You can snorkel in the sea, bathe in the sun, hike in the mountains, golf, jog, bike, shop, dine in some of California's best restaurants, even visit Mexico. But for great entertainment, you've got to visit the animals.



The world-famous San Diego Zoo is filled with wildlife of every size, shape, color and description. Ride the Skyfari tram for a bird's-eye view, then learn all about the animals on a fascinating guided bus tour. There's even a Children's Zoo for kids and grown-ups, too.

On Mission Bay, you'll be awed and entertained by the incredible animals of SeaWorld. America's largest and finest marine life park is brimming over with sparkling new sights and shows. Thrill to Shamu™, the famed killer whale; feed dolphins and killer whales, come face to face with awesome sharks, and turn the youngsters loose in Cap'n Kid's World™.

At the San Diego Wild Animal Park, thousands of animals roam free in a "zoo of tomorrow." Travel by monorail to encounter rare and endangered creatures from every corner of the globe. See exciting bird, elephant and canine shows plus name musicians every weekend from June 12 through Labor Day.

For more information, contact the San Diego Convention and Visitors Bureau, Dept. 153, 1200 Third Avenue, Suite 824, San Diego, CA 92101. (714) 232-3101.

feels good all over
san diego™

Sand explodes *as spiker and blocker go high above the net*

PETER O. WHITELEY

A day at the beach watching pro volleyball .. five summer tournaments

Sand, surf, sun, and great volleyball are all part of the professional volleyball tournaments to be held this summ You can see the world's best two-man teams compete for c prizes in the sixth season of the Cuervo California Beach To

The intensity and quality of the play contrast with the rela setting—spectators lounge in beach chairs next to filled c ers while children wander to and fro. Admission is free; bring a picnic. Play starts around 10 A.M. and lasts all day.

The schedule starts with the Santa Cruz Memorial Day O on May 29 and 30 at Cowell Beach. It's followed by the To nament of Champions on June 27 in Santa Barbara's F Beach. Next is the Laguna Beach Open on July 24 and 2 Main Beach, and then the San Diego Open on August 21 22 at Ocean Beach. The finale is the World Champions on Seaside Lagoon at King Harbor, Redondo Beach, on S tember 17, 18, and 19. For more details, write or call National Outdoor Volleyball Association, 8230 Beverly Bl Suite 17, Los Angeles 90048; (213) 653-5008.

Our summer harbor hopping cruises offer you the unique opportunity to explore New England with all the comforts and luxuries of a large coastal ship. Our all new Maine Coast Cruises or New England Islands Cruises will take you to several classic history-laden ports brimming with New England's rich, seafaring tradition.

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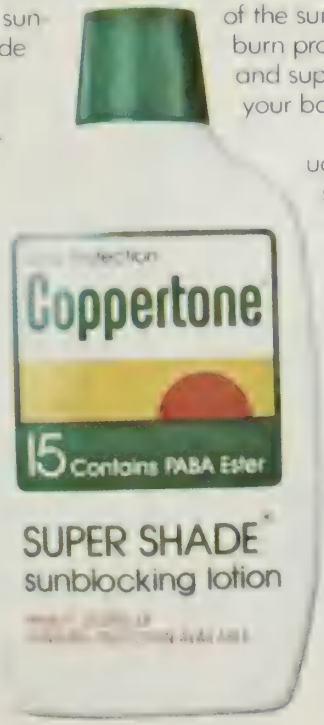
Both of these women are equally protected from sunburn.

The woman on the right is protecting her sun-sensitive skin with Super Shade from the Shade family of sun protection products.

Super Shade isn't a suntan lotion. It's a sunblocking lotion. The highest degree of sunburn protection available.

In fact, with liberal and regular use, Super Shade SPF 15 blocks out over 93% of the sun's burning rays. Which makes it super sunburn protection for people with sun-sensitive skin, and super protection for any sun-sensitive spot on your body.

The Shade family of sun protection products also has two protectors that let you tan safely, gradually and beautifully. Shade® SPF 6 and Shade Plus™ SPF 8.



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sunblocking lotion

One of the Shade family of sun protection products.

SKIN CANCER FOUNDATION ACCEPTED PHOTOBIOLOGY COMMITTEE

*Super Shade #15 meets the criteria and standards established by The Skin Cancer Foundation as an effective aid in the prevention of sun induced skin cancer when applied in the prescribed manner.

© Plough, Inc. 1980 Read and follow label directions.

Exploring Puget Sound by new cruise ships

In the last few years, cruise ships have emerged as another way to explore Puget Sound. Cruises to Alaska and elsewhere have originated in Seattle for decades, but until recently Puget Sound itself has been neglected.

Now, three operators offer four three- to five-day cruise packages aboard motor vessels ranging from 58 to 143 feet long with prices running from $239 to $[illegible] and up.

These cruise companies are based in Seattle, where all tours begin, though you can board one in Vancouver, British Columbia. All visit some of the

Surprisingly shallow draft *allows this cruise vessel to slip into quiet cove so passengers can take a dip in Princess Louisa Inlet*

All 1982 Dodges are designed for outstanding performance on the road. All are manufactured under rigorous standards of quality at the factory. But otherwise each is different—meant for different purses, purposes and personalities.

Charger 2.2—a lot of go without the guzzle. The front-wheel-drive Dodge Charger goes from 0 to 50 in 5.98 seconds. That beats Porsche 924 and Toyota Celica Supra.* Charger's 41 26‡ mileage stats beat most of the big names in sports cars too. And when you consider that you can get a well-equipped, well-instrumented Dodge Charger for $7472,†† it's no wonder that this hot car is selling like hot-cakes.

Dodge 400—America's per[illegible] driving machine. 400 brings the[illegible] performance to the world of pe[illegible] luxury. With front-wheel-drive, [illegible] and-pinion steering and MacPe[illegible] struts, you discover driving rew[illegible] not possible in ordinary person[illegible] luxury cars. Yet at the same tim[illegible]

*Porsche 6.65 seconds. Toyota 6 [illegible] based on National Hot Rod Association tests of standard [illegible]

ınd's seaport towns and spend some ıe in the San Juan Islands. Two oper- ırs push into Canadian waters, taking ı to the fiord-like wilds of Princess uisa Inlet, about 200 miles north of ıttle.

ese are new boats—all built since 78—designed to negotiate the North- st's convoluted shorelines and narrow terways. All can maneuver close to nic features, tie up (or at least unload ısengers) at small docks, and move wly to view whales or other wildlife. e vessels can cruise at top speeds ıging between 12 and 20 knots.

o vessels offer staterooms; the other ɜrator arranges overnight accommo- ions on shore.

ne of these are luxury cruise ships. ere's no swimming pool, sauna, or ılar on-board amenities. Instead, the cruise focus is on the natural beauty of the Sound and its seaport villages. Yet each cruising experience is quite distinct. Here's a summary of itineraries, from the smallest to the largest vessel.

DOUGLAS MEISAK

Inflatable runabout *with small outboard motor carries passengers to fishing spot near mother vessel Stephanie Anne*

Viking Star Charters, 3629 Bagley Ave. N., Seattle 98103; (206) 634-2939. The 58-foot *Viking Star* leaves Seattle's Shilshole Bay Marina every Monday from June 21 through September 27 on three-day excursions (from $239) to the San Juan Islands.

With two cruise seasons under its belt, this is the Sound's oldest operator, and least expensive, partly because accommodations (included in the price) and a few meals (not included) are ashore. For the two

es extraordinary mileage: One non-luxury feature of the upe is the base sticker price: As shown, $8253.††

ırada—pleasure, power, per- ıce. Mirada is engineered for excellence and driving ease, expressively styled exterior ısh, plush interior. This all-American driving machine makes short work of long distances. And Mirada provides more of the standard features Americans want than any other car of its class. Base sticker price: $8619.†† As shown, $9650.††

If you're looking for a high performance driving machine at a low price, buy or lease a 1982 Dodge.

America's Driving Machine

MPG for comparison. Your mileage may vary depending on speed, weather, and trip length. Actual highway mileage will probably be less. Calif. est. vary. †† Sticker prices exclude taxes and destination charges.

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Photos by Ray Manley

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nights, you stay at a motel on Lopez Island—a good base for exploring the San Juans, the major feature of this itinerary.

Besides Lopez, stops in the San Juan chain include Roche Harbor, Rosario, and Stuart Island, where you put in for a beach picnic. On the cruise from Seattle you'll stop at Port Ludlow, cruise past Port Townsend and across the Strait of Juan de Fuca. On the return, you'll stop at LaConner and on Whidbey Island at Coupeville or the Captain Whidbey Inn.

Rates are based on double occupancy, but inquire about single and three-to-a-room rates. The 47-ton *Viking Star* can carry up to 34 passengers and 5 crew members. She cruises at 16 knots with a top speed of 20 and has a 4½-foot draft.

Bendixen Cruises, 818 W. Argand St., Seattle 98119; (206) 283-3963. The 65-foot *Stephanie Anne* (built in 1980) will begin its first full season of Puget Sound cruises this summer. Five-day cruises ($765 and up) from Seattle's Lake Union through the San Juans to Princess Louisa Inlet are offered mid-June through October.

With plush carpeting and custom-designed furniture, this vessel has an elegant bearing. Five double staterooms accommodate up to 10 passengers: four of the staterooms share two baths; the fifth has its own. There's a crew of four.

Meals served aboard include a fair amount of fresh seafood (bought from passing commercial fishermen or caught by passengers). Guests have full use of two 14-foot skiffs: to fish for salmon or bottomfish, to set crab pots, or to land and explore some of the islands in the San Juan chain. You'll also stop at LaConner, Victoria, and nearby Butchart Gardens, and Princess Louisa Inlet.

The 87-ton vessel's diesel engines produce a top speed of 20 knots. Prices range from $765 (for a bow room with berths) to $950 (for a double room with queen-size bed and private bath).

Exploration Cruise Lines, 1500 Metropolitan Park Bldg., Seattle 98101; (206) 624-8551; outside Washington call toll-free (800) 426-0600. Four- and five-day cruises ($636 and up) depart late May through late September for the San Juans, Gulf Islands, Victoria, Vancouver, and Princess Louisa Inlet.

The 143-foot, 97-ton *Pacific Northwest Explorer* (built in 1980) is by far the largest vessel, offering more of the typical cruise-boat experience: large dining room, lounge with entertainment, sundecks.

Forty rooms on four passenger decks accommodate up to 80. Based on double occupancy, prices for the four categories of rooms range from $636 to $956 for the four-day trip, from $797 to $1,197 for the five-day cruise. Ask about single- and triple-occupancy rates. You can opt to join cruises in Vancouver, B.C., shortening your voyage by a day and reducing your fare by $52 to $80, depending on room category.

On its longer outing, the *Explorer* visits some areas not included by other operators: Kiana Lodge on Puget Sound and Pender Harbour on B.C.'s Sunshine Coast. Plenty of time is allowed for optional side tours in Victoria and Vancouver.

Despite its size, the *Explorer* has a draft of only 7½ feet and is fairly nimble. An unusual bow ladder makes it possible to load and unload passengers and to operate in tight quarters. Top speed is only 12 knots, but the ship often cruises at night to make time.

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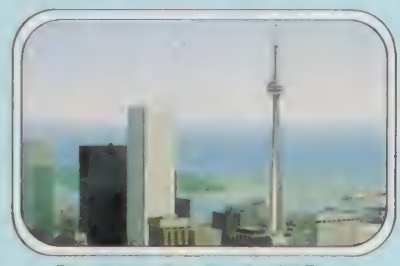

Toronto's skyline stars the CN Tower.

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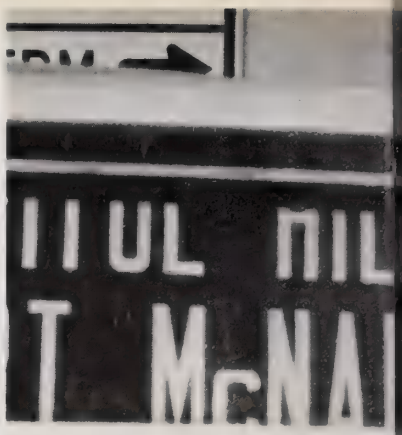

Bus driver *in rescue helmet ponders "traffic" in the City Room, one of museu exhibits mingling fantasy and reality*

Just-for-kids museum in Washington, D.C

After too many hours among the ri of Washington's famous museums, dren tend to drag and fade. But not away is a guaranteed pickup: the Ca Children's Museum. There, four fl of hands-on exhibits entertain as we teach.

Measureland's computer games, kitc pharmacy, and shoestore teach me conversion and measurement. In the ing Room, giant blocks can be endle rearranged for walls and furniture, parachutes make airy roofs or divid A closetful of uniforms and hats in City Room lets children become pol men, firemen, or other grownups.

Pulleys, levers, and other simple chines demonstrate basic physics, w the large Mexican hall features costu

Fitting *colored shapes into designs, she learns about colors, geometry*

Punch *the right numbers and talk to a friend nearby*

y on, tortilla making, musical instru-
ts to play, and craft techniques.
ecently opened communications ex-
is extremely popular. It takes
ngsters chronologically from cave
tings and the Tower of Babel to a
king earth station for a communica-
s satellite. Along the way, they can
e with quill pens, work a Braille
hine, and try other ways of exchang-
information.
oughout the museum, volunteers—
nding college students and senior citi-
—give attention and help when
led.

private museum is at 800 Third
et N.E., a short walk from Union
ion Metro stop. It's open 10 to 4:30
sday through Friday, 11 to 4:30 Sat-
ay, and 1 to 4:30 Sunday. Weekends
busiest, though school groups visit
kdays during the school year. Call
) 543-8600 for information on cur-
exhibits. Admission is 50 cents for
dren 15 and under, $1.50 for adults. □

Story Book Places

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Canada

Porched *and shuttered Lott House, 126 years old, has been restored and opened to the public*

Blooming hydrangea *greets strollers at Sank Park. To right, iron incense urn guards Chinese Temple; inscription names the donors. Wall banner refers to authority of Cantonese water deity*

DAVID S

Miners and Chinese left their mark on Oroville

A gaggle of gold seekers founded a settlement on the Feather River in 1849 and, with great expectations, dubbed it Ophir, after a legendary Arabian land of riches. There already being one Ophir in California, town fathers eventually had to change the name (but not their expectations), using the Spanish word for gold to create Oroville. And it was as Oroville that the town yo-yoed through the 19th century, rising when improved mining techniques uncovered new wealth, falling when that wealth played out.

Nowadays when outsiders think of Oroville they may think of a wide dam and a lake sliced by powerboats. But the city, especially this month, merits a half-day's exploration. Though time has erased much physical evidence of the mining here, traces of the miners remain.

Many were Chinese, pressed tight into a cluster of buildings on the riverbank. Today you can still find the four structures that formed the old Chinese Temple complex: the main temple, built in 1863 and holding an ornate altar to three Taoist gods; the Confucian Chan room; a round-doored Buddhist Moon Temple; and a Council Room, where community business was transacted.

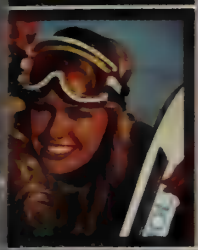
Nearby, standing in contrast to the brave opulence of temples and council room, is a doorless shack typical of miners' dwellings of the era. And across the plum-shaded garden lies another attraction: the Tapestry Hall, which—along with tapestries—contains a collection of shadow puppets and 19th-century clothing.

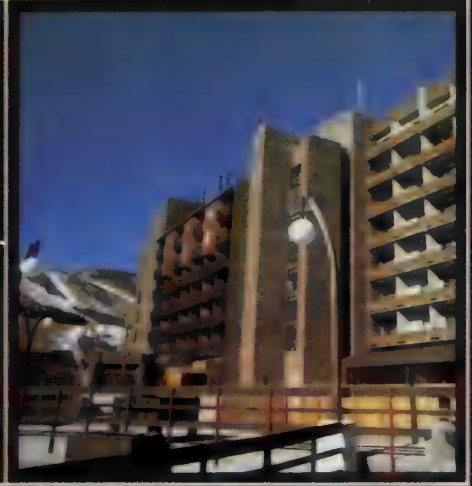
Temple and hall lie at 1500 Broderick Street; to get there from State Highway 70, take the Montgomery Street exit and turn left at First Street, then right onto Broderick. Hours are Friday through Tuesday, 10 to noon and 1 to 4:30; come June they will be open Wednesday and Thursday afternoons as well. Admission is $1.50, under 12 free.

A few blocks to the southwest, the Lott House, at 1067 Montgomery Street, shows another side of Oroville. The Gothic Revival home (built by J Charles F. Lott in 1856) and surro ing Sank Park have a leafy Currier Ives charm; the restored interior, wit big-as-a-battleship Wedgewood s and its hearth on which L-O-V- spelled out in mosaic, is equally app ing. Hours are Friday through Tue 10:30 to noon and 1 to 4; startin June it will also be open Wednesday Thursday afternoon. Admission is $ for adults, free for children under 12.

Should you be in Oroville on a Sun another collection of memorabilia be found at the free Butte County neer Memorial Museum, 1067 M gomery Street, open 1 to 4.

And from May 3 to 9 you can joi Oroville's annual Fiesta Days, wit rodeo, parades, a May 4 open hous the Chinese Temple, and concerts flea markets in Sank Park. For det write or call the Chamber of Comme 1789 Montgomery St., Oroville, C 95965; (916) 533-2542.





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With 2.5-ounce brain, *6-ton Stegosaurus stalked earth 140 million years ago; sculpted replica is in museum ga*

Dinah the dinosaur and friends . . . Utah's "Dinosaurland

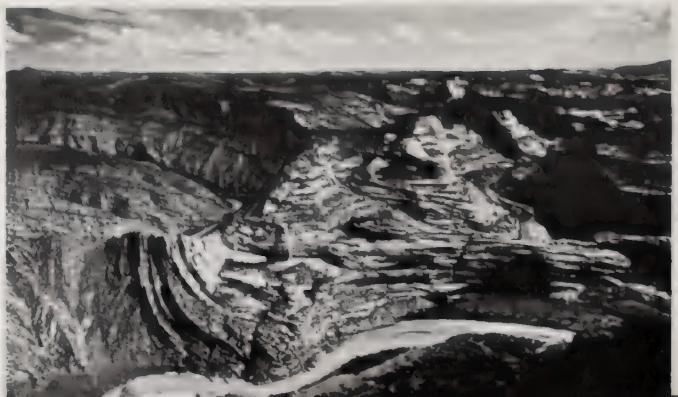
Long stretch *reaches top of Brontosaurus thighbone—a 600-pound, 5½-foot-high fossil*

If a huge Stegosaurus were to lumber out of the primitive terrain around Vernal, it would hardly look out of place. Dinosaurs are everywhere here, in the self-styled capital of northeastern Utah's "Dinosaurland."

A *Tyrannosaurus rex* rears to greet you on Main Street at the far west end of town. The local mascot—a smiling *Brontosaurus* caricature named Dinah the Dinosaur—appears on shop doors and the sides of trucks, even on business cards and letterheads. There's the Dinah Bowl, Dinah Jeans, Dinaland Plumbing, and, of course, the Dinosaur Motel.

Fervor over the extinct reptiles is intense in this town of 8,000 in the Uinta Ba but for good reason. Vernal's back y contains one of the greatest deposit dinosaur remains in the world.

The Dinosaur Natural History Muse and gardens in Vernal and the nea quarry site in the visitor center of D saur National Monument are worthw stops on trips to the Green River Flaming Gorge National Recrea Area. The 58-mile stretch of Green snakes through the monument is river's most popular rafting run. Flaming Gorge Reservoir, which unf in a series of bends and bays well up Wyoming, is a prime boating and fish



Eroded cliffs *and striated walls of Precambrian canyo hem in Green River as it flows through Dinosaur National Monumen*

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Call your travel agent, whose advice is not only priceless, it's free. Or write to Royal Viking Line, Dept. L-54, One Embarcadero Center, San Francisco, CA 94111.

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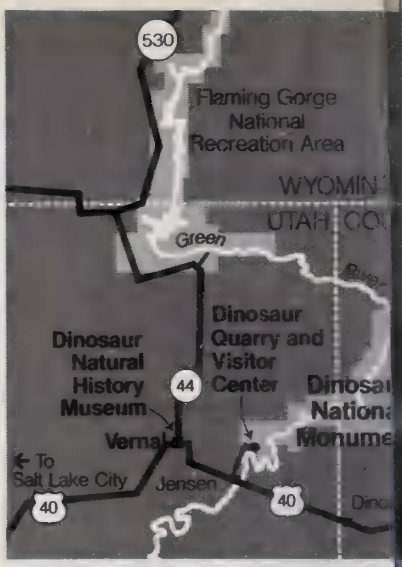

Gateway *to dinosaurland, Vernal is 175 miles east of Salt Lake City*

spot (one access road is off State 44 a 35 miles north of Vernal).

Dinosaurs roam in museum garden

History is traced back 2 billion yea the Dinosaur National History Mus Interpretive dioramas and exhibits plain prehistoric times, Indian life, the geology of northeastern Utah. rooms are packed with fossil disp replicas of Fremont Indian petrogly rocks from across the country, a wall-length diagram showing a geol cross-section of the Uinta Mountains

In the gardens, wander among the life-size dinosaur sculptures set in a created ancient environment of la swamps, and rocks. Creatures inc the *Triceratops* (largest of the hor dinosaurs) and the *Rhamphorhync* an early flying reptile. The museum gardens, 235 E. Main Street, are ope to 5 daily; admission is 50 cents.

At Dinosaur National Monument, displays overlook a bone quarry

Bones unearthed at the Dinos Quarry and displayed at the visitor c ter 20 miles east of Vernal, indicate least 12 kinds of dinosaurs lived h along the bank of a now-vanished ri during the Jurassic period. The gl encased center is built over the 200-fo wide working face of the quarry. Un the scrutiny of visitors, paleontolog patiently chip away at a jumble of posed bones, continuing research be in 1909. Only in rare cases are specim still removed from the quarry.

Displays outline the quarry's histo chart the dinosaur age, and give less in paleontology, touching on the to used in uncovering fossils. The visi center is open from 8 A.M. to 6 P. daily, free. To reach it from Ver take U.S. 40 east for 13 miles; go l (north) on State 149 for 7 miles.

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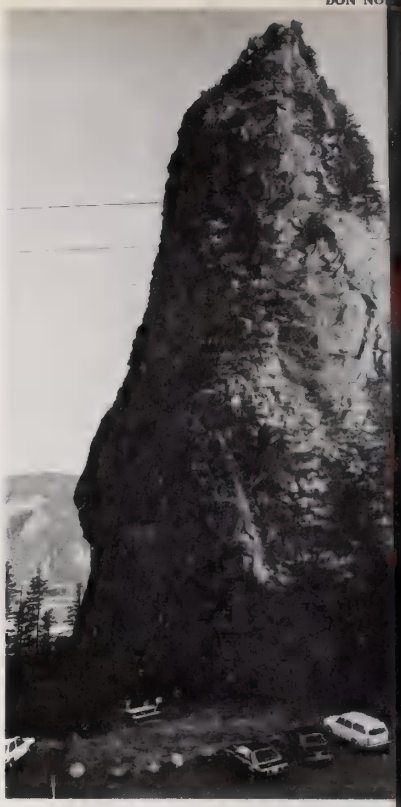
DON NO



Jutting skyward *alongside Columbia Ri Beacon Rock is eroded core of old volca*

Up Beacon Rock on the Columbia

To sample the rugged, forested cou along the Columbia River, Portland travelers can plan a few-hour or o night trip to Beacon Rock State Park the river's Washington side.

Beacon Rock, an 848-foot basalt mo lith, towers above the Columbia 35 m east of Vancouver, Washington, on S 14. A landmark for river voyagers more than 175 years, the rock is part 4,250-acre state park composed of ri front and wooded backlands.

Ten riverside campsites are conven for boaters and fishermen, with a laun ing ramp nearby. Hikers may prefer 25 campsites high on the forested slo across the highway, near a picnic area

A short but steep mile-long trail sna from the parking lot along the high to the top of Beacon Rock. A 7½-m loop hike begins at either the picnic a or the upper campground and heads miles to Hardy Falls. From there, right fork leads 2 miles to the top Mount Hamilton, then follows a ri 1½ miles to a fire road. Follow the r down Hardy Creek to rejoin the trail.

The picnic area and both campgrou opened March 1. Overnight fee is $5 per vehicle; day use is free.

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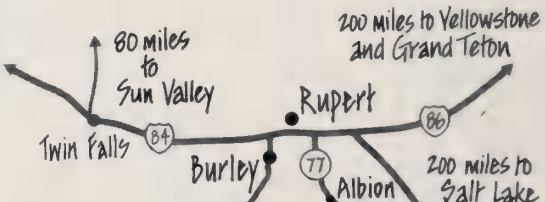
DON NOR

Feet get a bath *in natural tub atop one of numerous rocks in Silent City of Rocks, once a campground for wagon tr*

75-mile loop tour takes you to Silent City of Rocks in southern Idaho



Beginning in the late 1840s, California-bound pioneers by the thousands traveling the California-Applegate Trail stopped their wagon trains in southern Idaho and camped in a spot now locally called the Silent City of Rocks.

In contrast to nearby landscapes of gentle mountains and flat plains, this valley, several miles across, is surrounded by eerie stone shapes—quartz monzonite domes and spires jabbing skyward, appearing from the distance like a stone city. "We were so spellbound with the beauty and strangeness of this place," reads one 1849 immigrant's diary, "that no thought of Indians entered our head."

It's as awesome today as it was to those pioneers, whose names and camp dates remain recorded in axle grease on stone. But now the City of Rocks is an easy side trip for anyone crossing southern Idaho on Interstate 84 (formerly I-80N).

Following the 75-mile loop drive shown on our map, you'll also see Mormon farming and ranching towns little changed since their founding about a century ago.

Burley, the best starting place, offers the nearest motels. Here you can also get a "Silent City of Rocks" map brochure from the Chamber of Commerce, City Hall, 1401 Overland Ave., Burley 83318; (208) 678-7230. (If you write, include a stamped, self-addressed envelope.)

Pavement ends several miles south of Oakley. It's another 17 miles over graded gravel to the City of Rocks. Roads not recommended in bad weather.

Plan to spend several hours explor Children especially love climbing under, and around cradles and peeka holes carved in the rocks by centurie wind and weather. Juniper, piñon, aspen groves offer shady retreats picnickers.

Primitive camping is permitted am the rocks. If you aren't going to there overnight, plan to leave the before dark, while roads are still ea visible. Bureau of Land Managem and Sawtooth National Forest offici now responsible for the area, ask cars remain on the roads to prevent ther scarring of the area.

pider Veloce

he reasons for buying an Alfa omeo Spider Veloce are equally istributed between the quality of e car and the personality of the river. On the one hand, the Spider eloce is a finely balanced showase of race-proven engineering hose net practicality makes it an xcellent value. On the other hand, rivers who know and love driving nd that it's just plain fun to drive.

For good reason. The Spider eloce starts, goes, stops and corers fast. It even looks fast just sitng there. It has an aluminum-alloy OHC engine and five speed transission. The Bosch L-Jetronic fuel jection ensures instant, smooth ower. The 4-wheel power assisted isc brake system will decelerate ou back to zero in an amazingly hort, straight line. And the Spider eloce's suspension is refined to e point that most expert drivers onsider handling to be the most utstanding of its outstanding haracteristics.

At this point, we'd like to mention hat the Spider Veloce is also goreous. The classically simple and legant Pininfarina exterior does xactly what outstanding styling hould do, namely stand out. The nterior is a combination of Pininarina style and common sense.

But it won't be until you're beind the wheel that you'll feel the lfa Romeo history. And the magic vill really take over. We're sure ou'll agree with us. This is one car hat brings a whole new meaning to e old expression "it practically ells itself."

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2.5 Coupé

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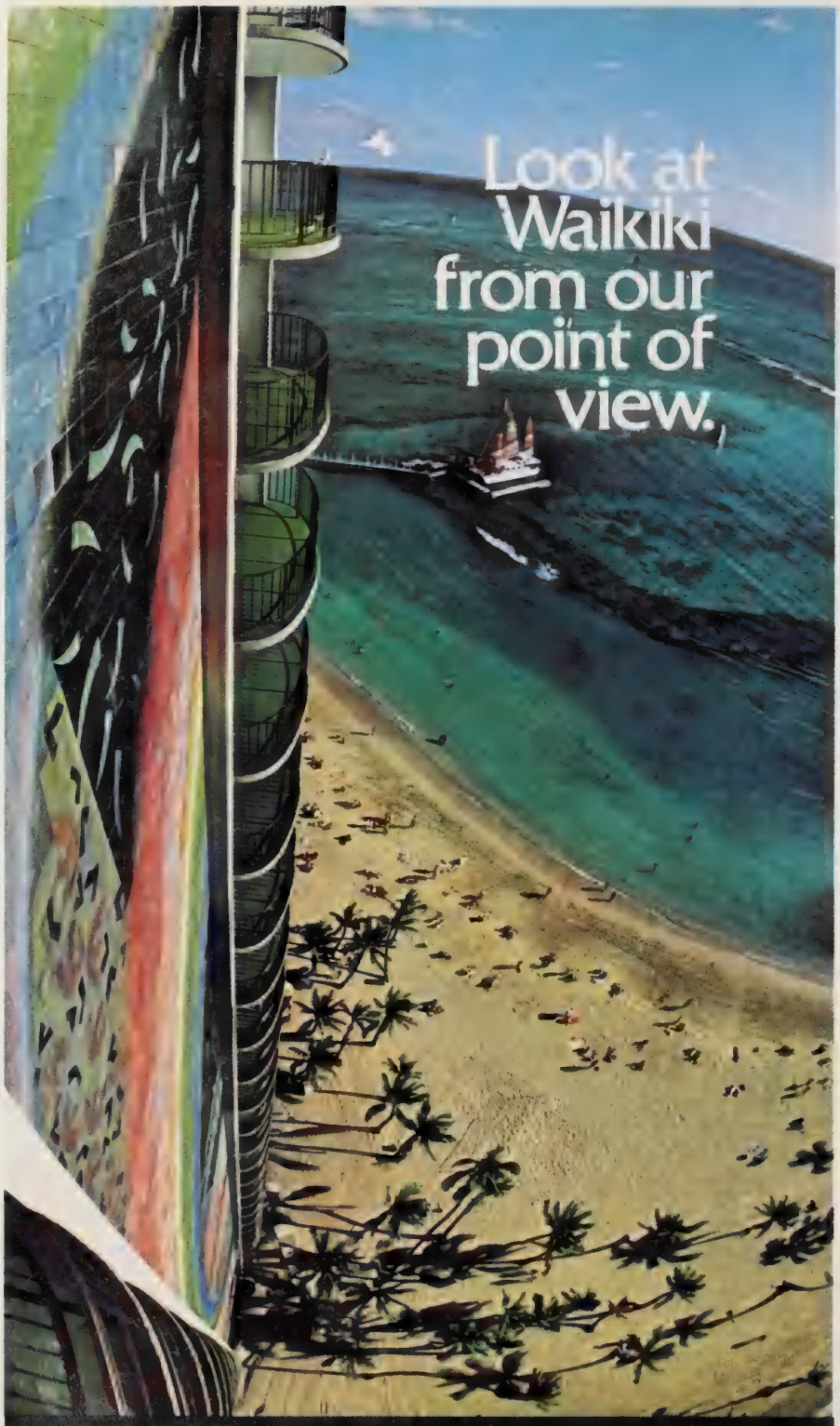

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Big Ben *is a stop for family taking a 2-hour tour of London high points in a hired cab with qualified guide*

Sightseeing by London cab

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This style of sightseeing costs more t the usual coach tour, but the advanta may outweigh the expense. Cabs maneuver in and out of ancient and t lanes where tour buses can't go, lett you visit districts like Soho and Sou wark. You can design your own tour give your guide a list of "must see" c tinations. If you like, you can end tour at a pub for lunch.

If possible, write ahead for reservatio If not, ask the hall porter at your h to book for you. Your cab will pick up at your hotel and take you for a hour tour around the city. Or you plan an all-day excursion to Oxfo Stonehenge, or the Cotswolds. If you ready have a car, you can book a P tige guide to accompany you.

For more information, write to Pres Tours, 3 Elystan St., London, SW3 3 There is a 24-hour booking service: 01-584-3118, or Telex 896559. Each takes a maximum of four passeng The minimum tour is 2 hours and c £20 (about $38).

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THOMAS HOLDMAN

Hay Street Mall, *Perth's pedestrian shopping area, is lined with restaurants, stores. Entrance to London Court arcade is at right*

Mall walking in old Perth

ı world map, Perth, on Australia's coast, seems isolated. In fact, it is a tiful, growing city the size of San o. Perth's cosmopolitan atmosphere flected in the great diversity of its s and restaurants. The city is laced parks and gardens; nearby on the ın Ocean are fine beaches. You t stop off if you're journeying to heast Asia, or if business brings you h is headquarters for many mining erns).

d city planning makes for delightful strian exploration; shops and his- buildings are just a stroll away from ıtown hotels. A fine starting point is Hay Street Mall between William Barrack streets.

ı arcade off the mall has its own acter. Multistoried City Arcade is with vibrant colors and stores fea- g contemporary products. In open- ondon Court, with its half-timbered des, many shops sell British imports. her arcades you'll find stores selling ralian sheepskin jackets and boots, jewelry, Aboriginal crafts, as well mports: Malaysian pewter, Indian Thai cottons and silks, and African ings. Restaurants and theaters are by.

Australia sizes up *pretty evenly with the continental United States. Perth is about 2,100 miles west of Sydney*

Architectural buffs can easily see Perth's many well-preserved buildings (dating from the mid-1800s to the early 1900s) on two walks north along William Street or on St. Georges Terrace, just south of the mall. For historic walk details, stop by the travel center at 772 Hay Street.

You can add Perth to the usual Australian flight itinerary for about $200 if you purchase the ticket in the U.S. as part of your total round-trip Apex air fare.

For more information on Perth and Western Australia, write to the Australian Tourist Commission, 3550 Wilshire Blvd., Los Angeles 90010. □

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Boat-sheltering bend
of levee-banked slough slices pancake-flat Delta plain, seen from air. Mount Diablo rises dimly on western horizon

The disputatious Delta. The lazy Delta

It's right in the center of the Peripheral Canal controversy. It's 700 miles of mostly quiet waterways to explore by boat or car. Best weather is coming up . . . so is a big election

ntion the Peripheral Canal and you're ly to arouse strong feelings from ny Californians. The proposed canal ubject of divisive debate in the state more than 15 years—may now be ter known than the territory it's de- ned to flank: the Sacramento - San quin Delta.

eading over nearly three-fourths of a lion low-lying acres, the Delta is a aw puzzle of some 60 levee-rimmed nds and farming tracts, webbed with miles of waterways (rivers, sloughs, als, channels) and linked by bridges ferries. It's a complex, man-altered environment with its own soothingly subtle beauty.

May is a prime time to explore the Delta: temperatures are pleasant, striped bass fishing can be good, and off-season or spring rates for houseboat rentals are offered by many operators through mid-month or early June.

But there's another timely reason to acquaint or reacquaint yourself with the Delta: California voters will be asked to decide the fate of the Peripheral Canal —and perhaps directly the Delta—on June 8.

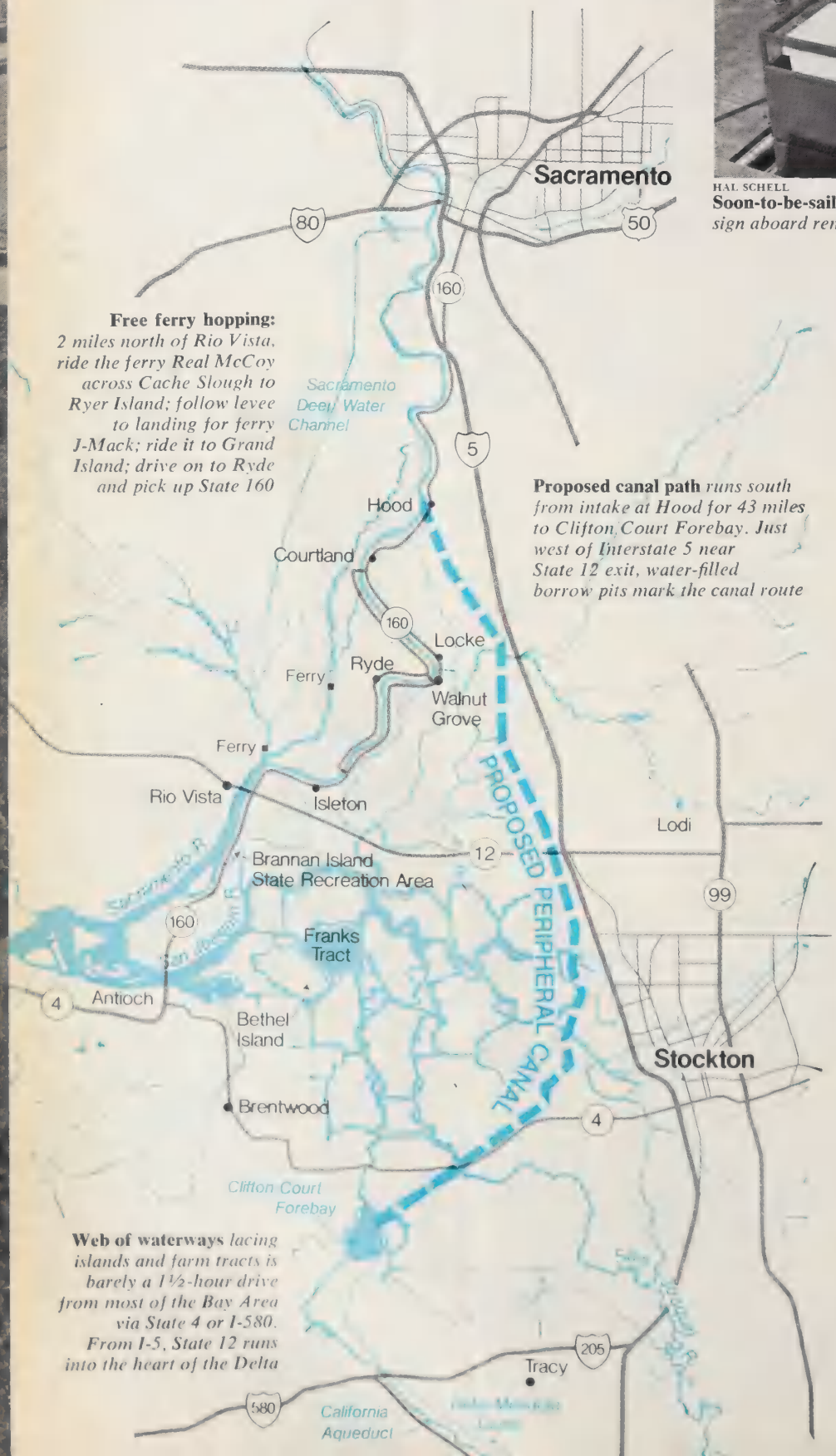
We map the Delta and the proposed path

DAVID STUBBS
Proud asparagus grower *holds prize of Victoria Island's peat soil: spears that shoot up from March through May*

Canoeists cavort *on calm water at New Hope Landing east of Walnut Grove*

Delta boat life . . . sailboats, freighters, houseboats, ski boats, yachts, excursion cruises

HAL SCHELL
Soon-to-be-sailors *laden with duffel (captain carries cooler) sign aboard rental houseboat at marina dock*



Free ferry hopping: *2 miles north of Rio Vista, ride the ferry Real McCoy across Cache Slough to Ryer Island; follow levee to landing for ferry J-Mack; ride it to Grand Island; drive on to Ryde and pick up State 160*

Proposed canal path *runs south from intake at Hood for 43 miles to Clifton Court Forebay. Just west of Interstate 5 near State 12 exit, water-filled borrow pits mark the canal route*

Web of waterways *lacing islands and farm tracts is barely a 1½-hour drive from most of the Bay Area via State 4 or I-580. From I-5, State 12 runs into the heart of the Delta*

of the canal at left. On page 95 discuss some of the concerns voice the canal's proponents and oppo and identify a few of the difficult p lems that will continue to face this ile territory whether the canal is proved or not.

From wild marsh to tamed maze

Cruise a few leagues on its winding ters or drive a way on its levee r and you leave behind the California know. The Delta has been called "Everglades of the West" and comp to the Mississippi, to Louisiana's b country, even to the Netherlands. the Delta is as distinct from any of t places as Stockton is from Amsterda

Less than 150 years ago, the area w vast marsh. The gold rush exposed argonauts and entrepreneurs who profit in farming its rich soil. Recl tion began in the early 1850s; the levees were hand-built by Chines borers. Later, steam-powered clam dredges took over the task. By the 1900s, much of the Delta had bee into a confusion of reclaimed isl and tracts.

Over the years, paddle-wheel steamb (the *Delta Queen* and *King* are the survivors) lost their cargoes of crops passengers to water-spanning railr and highways. Today, the waterways the province of pleasure boats and o sional ships bound for inland port Sacramento and Stockton.

The water has nurtured a leisure style as laid back as any in the W with dozens of marinas and waterf restaurants serving as social crossroa

Delta water also nurtures some of West's richest farmland. Potatoes w once the top cash crop; today the ho are shared by asparagus (harve March through early June) and o You'll find scores of pear orchards, t

Fresh but murky, the water is also lifeblood of the Delta ecosystem. It

useboat cruises *down the Sacramento, past double-bascule dge over mouth of Steamboat Slough*

On her maiden voyage, *cruise vessel Explorer locks through from Port of Sacramento for looping downriver run*

Like Jonah, *sailboat encounters whale of a high-riding freighter in deep water channel*

s catfish, striped bass, black bass, geon, and two varieties of crayfish. emost plant is the *Scirpus californi-* or tule (*too*-lee), a reed-like native t hugs long stretches of shoreline.

he fall, around the time tule fog starts king the Central Valley, the Delta omes a key link in the Pacific Fly- *y*, providing refuge and forage for lions of migrating waterfowl.

43-mile-long straw?

t what impacts the Peripheral Canal ght have on the Delta's ecology and er quality are matters of intense spec- tion. But there is no doubt about the proposed canal's massive scope.

Like a 43-mile-long straw, it would have the capacity to draw nearly half (considerably more in dry years) of the flow of the Sacramento River at an intake near Hood (see map), then carry it in a 300- to 400-foot-wide earthen channel around the eastern periphery of the Delta to the Clifton Court Forebay. From there, the water would be pumped through existing canals to users in central and southern California. At strategic points along the Peripheral Canal, about a fourth of the diverted water could be released back into the Delta to maintain water quality and regulate flows.

The State Department of Water Resources' estimated cost to build the canal alone is $680 million in 1981 dollars. It would take perhaps 12 years to complete, including time to prepare the required environmental impact report.

Nowhere will you find the Peripheral Canal more hotly opposed than in the Delta itself. Exploring by boat or car can help you appreciate what's at stake in this disputatious territory.

The Delta by boat

Down on the water, most of the world on the dry side of the levees is lost to view, but the sloughside scenery is fine

Free ferry J-Mack *carries cars across Steamboat Slough between Grand and Ryer islands. On Bethel Island (right), web-footed friends merit caution*

enough. The sloughs—Disappointment, Little Potato, Snodgrass, Steamboat, and Whiskey among them—reveal their distinctions as you float along. As you do, you'll sniff the Delta's own aroma: a funky river smell tinged with peat dust.

Certain out-of-the-way places are accessible only by boat: Lost Isle and Golden Gate resorts, the scenic Meadows, and other tranquil anchorages (a map listed later locates them). You'll likely have company—speedboats, cabin cruisers, classic yachts, ferryboats.

Delta sailors face a few challenges. Two high and two low tides each day are a consideration when anchoring. And sharp lookout must be kept for fellow boaters, water-skiers, no-wake zones (5 mph), flotsam, and submerged stumps and pilings. Later in the spring and summer, wind can be tricky when docking.

JERRY FREDRICK

Leaning porch pillars *of Locke survive along narrow main drag despite age—and occasional swipes by errant vehicles*

Houseboats. The rental fleet ranges from barge-like craft that carry an RV camper to plush "floating motels." Lengths run from 26 to 50 feet (smaller ones sleep 4, larger ones up to 10). Some operators continue off-season or spring rates through mid-May, others through early June. For a weekend rental in spring, expect to pay $200 to $400, depending on size and appointments. For a weekend rental in summer, rates run $300 to $500 and more. Ask about weekday rates (they're less). Costs do not include boat fuel.

Some dozen outfits rent houseboats around the Delta. For many of these, scan *The Sunset Travel Directory* under Houseboats in this issue and recent ones; write to the operators for brochures and price lists. You'll have a short guided shakedown cruise before you set off.

Small craft. Several marinas rent boats with motors, but unless you reserve them, they're likely to be booked. If you own a trailerable boat, there are plenty of laun ramps in public areas and at private marinas. If you bring a portable outdo motor (at least 7½ hp) and carry an ext fuel tank (fill it on site), you can rent a skiff or small runabout by the hour or d at many marinas.

Sunday afternoon cruises. The *Channe* cruises in the southeast Delta on Sunda from 1 to 3 P.M. You tour the Port of Stockton, float past mothballed U.S. Ar vessels at Rough and Ready Island, and skirt farm tracts. Cost is $10 per adult, $ for children under 12. For reservations write to Channel Star Excursions, Box 8 Stockton 95201; or call (209) 464-2590. Ask about "A Day on the Delta" boat-b

Smiling pear *beckons biker to orchard off River Road near Courtland. Harvest will start in late July*

Delta exploring by car, with ferry support . . . pear orchards, waterfront restaurants, historic ramshackle in Locke

Sloughside breakfast *is served at Rusty Porthole restaurant on Bethel Island, with jaunty backdrop of sailboats*

pretive tours to be offered four times ummer; cost of $45 per person des lunch.

Francisco - Sacramento cruises. Delta el Agency arranges one- and two-day pretive cruises between San Francisco Sacramento on excursion vessels (you oard at either city). From Fisherman's rf, you cruise across the Bay, up the amento, then into the Deep Water Ship nel for the run to the capital. Cruises rt Saturdays and Sundays. One-way is $33 per person. Round-trip fare, ding a night in a hotel (double pancy), is $81 per person. Write to a Travel Agency, Box 813, West amento 95691; or call (916) 372-3690.

Three-night Delta cruises. A new operator in the Delta, Exploration Cruise Lines is offering four-day, three-night cruises with stateroom accommodations aboard the motor vessel *Pacific Northwest Explorer*. Cruises depart San Francisco through May 19 (then again from October 3 through mid-December). Ports of call include Stockton, Sacramento, and Locke. Depending on the type of stateroom, spring cruise prices range from $399 to $600 per person; fall cruises cost slightly more. For dates and details, see your travel agent or write to Exploration Cruise Lines, 1500 Metropolitan Park Bldg., Olive Way at Boren Ave., Seattle 98101.

Fishing trips. You can catch fish—and crayfish—throughout the Delta. Note that new angling regulations for striped bass, implemented to increase the number of spawning fish, limit your daily catch here to two stripers, each at least 18 inches long.

If you're hankering to land a big striper or a sturgeon, consider a fishing guide. Delta Fish Finders lead day and night trips (cost is $50 per person for stripers, $75 for sturgeon; three anglers per boat). Write to the outfit at Route 1, Box 62AA, Brannan Island Rd., Isleton, Calif. 95641; or call (916) 777-6411. There are other guides; ask for recommendations at local bait and tackle shops.

By car on the scenic River Road

State Highway 160 (River Road) snakes from bank to bank along the Sacramento for some 45 miles. From the Bay Area, you can pick up State 160 at the Antioch Bridge (50-cent toll northbound). From Sacramento, State 160 runs south into the Delta.

On levee-top stretches, the elevated views can be a bit unsettling: you drive just above the summits of pear orchards with the upper stories of farmhouses peeking at you over the treetops; below you on the other side, boats and water-skiers whiz up and down the river.

Island loop trips will suggest themselves (try Andrus, Brannan, and Ryer islands). As you drive along an island's levee-rimmed perimeter, you may feel as though you're riding the edge of a giant dinner plate—its floor as flat as an Iowa cornfield.

While you may pass emerald spears of asparagus sprouting in pitch-black peat fields, your best bet for buying it is at produce markets in and near Stockton, or in your neighborhood grocery—more than half of California's crop is grown in the Delta.

Along roads on several islands and in towns beside the Sacramento, you'll find

Boiled crayfish *is seasonal delicacy served at Moore's Riverboat on Andrus Island. You can trap your own throughout the Delta*

Delta-style Huck Finn *pulls in small striped bass; he quickly released it (minimum keeping size is 18 inches)*

HAL SCHELL

Pug-nosed sturgeon *is no beauty, but under its thick skin is tasty flesh. This is a young one; whoppers run to 400 pounds*

all manner of restaurants (many accessible by both car and boat) that serve meals ranging from platters of boiled crayfish to broiled steaks.

Consult these maps: *Hal Schell's Delta Map* (Schell Books, Box 9140, Stockton 95208; $2.50), which locates anchorages, marinas, and restaurants; and for general land navigation, the *Bay and River Area* map of the California State Automobile Association.

Accommodations that don't float are few; you could spend the night in Stockton, "The Delta City." For lodging help, write to the Convention & Visitors Bureau, 46 W. Fremont St., Stockton 95202; or call (209) 943-1987. Sacramento is another overnight option.

Here are some highlights as you head north on the River Road.

How's the fishing? Striped bass, sturgeon, crawdads

Brannan Island. One of the few sizable land-based preserves in the Delta, Brannan Island State Recreation Area has sloughside picnic and swimming areas ($2 day-use fee per vehicle). There are also boat launch ramps and a 100-site camping area reservable through Ticketron.

Rio Vista. Wide river views aren't the only reason to visit this town. If you cross the Sacramento on the long bridge and continue east a few blocks, you'll see the red triangle sign of Delta Crayfish on your right. This firm sells crawdads (about $2 a pound) from 8 to 6 daily May until November.

Isleton. The wood superstructure looming over this river town belongs to the *Neptune*, a grand old dredger.

Ryde. The Prohibition-era Ryde Hotel has a still-lively speakeasy in its basement. On the first floor, Grand Island Dining restaurant is open 7 A.M. to 10 P.M. Tuesday through Thursday and Sunday, to 11 P.M. Friday and Saturday. Upstairs, the hotel's 1930-style rooms are being refurbished.

Walnut Grove is a two-sided town linked by the first cantilever bridge built west of the Mississippi.

Locke casts a tired clapboard face to the levee road. Built by Chinese immigrants in the early 1900s, it is best explored with respect for the privacy of townsfolk. To help preserve Locke as a living cultural community, the state hopes to acquire two buildings, including the historic Star Theatre.

The Dai Loy Museum, quartered in a former gambling hall, displays artifacts from Locke's lively, raffish heydays. It's open 11 to 5 on Saturdays and Sundays from April 17 through October; donati appreciated.

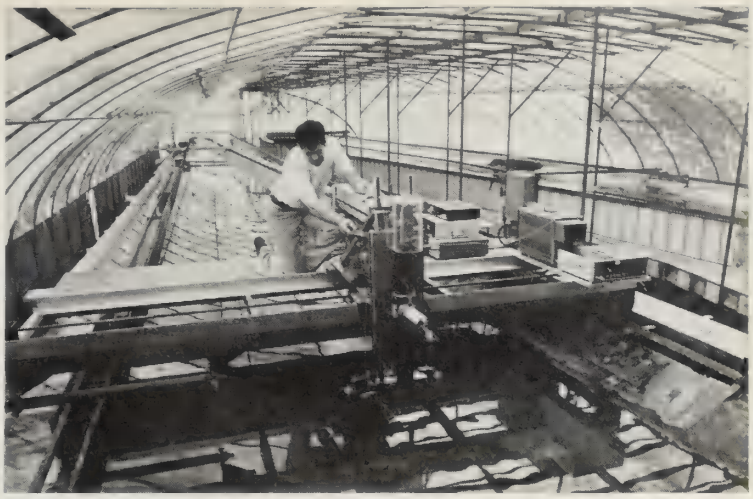
Courtland is the capital of Delta pear country. At harvest time in late July, the town honors the fruit with a festival (July 27 this year).

Hood, railhead for pear packers, would the proposed intake point for the Peripheral Canal.

Delta history detour. For a look at some well-done exhibits on the Delta's natur and human history, stop in at the San Joaquin County Historical Museum ne Lodi. Artifacts range from a duck decoy woven from tules to huge clamshell dre buckets that scooped out sloughs.

The museum, in Micke Grove Park, is o Wednesday through Sunday 1 to 5. Park admission is $2 per vehicle. Exit east off Interstate 5 at Eight Mile Road and follow signs.

What is at stake with the Peripheral Canal?



Working test model *of prototype Peripheral Canal's intake is at hydraulics lab at UC Davis. Technician measures scaled current velocity by probing water with split-beam laser linked to computer*

Cruising on the Delta one day, we overheard a visitor from the Rockies exclaim: "There's more water here than in the *whole* state of Colorado!" He could be right. Certainly, there is more fresh water in the Sacramento - San Joaquin Delta than anywhere else in California. More than 40 percent of the state's natural runoff—around 20 million acre-feet of water in a normal year—flows into the Delta.

(An acre-foot of water—about 326,000 gallons—is the amount it takes to cover 1 acre of land with 1 foot of water. Use the following figures as guidelines; statistics vary, depending on which agency or group supplies them.)

Where does all that water go? Depending on rainfall and releases to maintain water quality, perhaps half to two-thirds flows out into San Francisco Bay. During the growing season, an estimated 1.1 million acre-feet of water are siphoned directly from Delta waterways to irrigate local farmland.

Almost 30 percent of the volume is "exported" from the Delta each year by two agencies. Biggest exporter is the federal Bureau of Reclamation's Central Valley Project, which annually pumps about 3.2 million acre-feet to primarily agricultural users in the San Joaquin Valley through the Delta-Mendota Canal (see map on page 90).

The other big exporter is the State Water Project, which pumps about 2.3 million acre-feet a year. A fraction goes to communities in the San Francisco Bay Area. Most goes to users farther south through the California Aqueduct: biggest agricultural user is the Kern County Water Agency; largest entitlement belongs to the Metropolitan Water District of Southern California (MWDSC).

Over the years, the Department of Water Resources (DWR) has been chief advocate for the Peripheral Canal. Now the agency maintains that the canal is a necessity if the state is to fulfill its contracts to deliver 4.2 million acre-feet annually. If it is approved by voters, the canal would be built and operated under DWR direction. Ultimately, water users would bear the cost.

California voters will decide the fate of the Peripheral Canal in the June 8 election (Proposition 9). Here are some concerns being voiced by proponents and opponents.

Proponents of the canal say the present system of delivering Delta water is inefficient, and that present facilities won't be able to supply the future water requirements of Southern California. In addition to the 2.3 million acre-feet the state already withdraws, the canal would allow it to deliver an additional 1.9 million annually. (In 1985, when the Central Arizona Project is scheduled to begin diverting Colorado River water, the MWDSC will lose around half of its present annual allotment of 1.2 million acre-feet from the Colorado.)

Proponents urge voter approval of Senate Bill 200, the canal's enabling legislation already passed by the state legislature and signed by Governor Edmund G. Brown, Jr. Additionally, some state agencies contend that the canal, if properly operated, could improve water conditions for Delta fish.

Opponents say the canal will not be needed if present delivery systems and irrigation methods are improved and if Southern California conserves more water. They feel that the price tag for the canal, as well as for the necessary pumping plants and the energy required to move the water, is too high. (Combined cost of SB 200 projects, including the canal, exceeds $3.1 billion in 1981 dollars, plus interest and unknown additional costs.)

They're concerned about salt-water intrusion from the Bay into Delta waterways if the fresh-water supply is further decreased by the canal's diversion. Likewise, they worry about possible stagnation of the Bay if the fresh-water outflow from the Delta is cut by the canal.

Besides environmentalists, some Central Valley agricultural interests oppose the canal: they would like more water, but without the water-quality provisions approved by voters with the passage of Proposition 8 in 1980. (In a Catch 22 of California water politics, Proposition 8 would be voided if Proposition 9 is defeated in June.)

If you'd like to familiarize yourself with more of the divergent viewpoints on the canal, two groups can send you brochures: California Coalition to Stop the Peripheral Canal, Box 1863, Sacramento 95809; and the Citizens for Water, 3660 Wilshire Blvd., Los Angeles 90010.

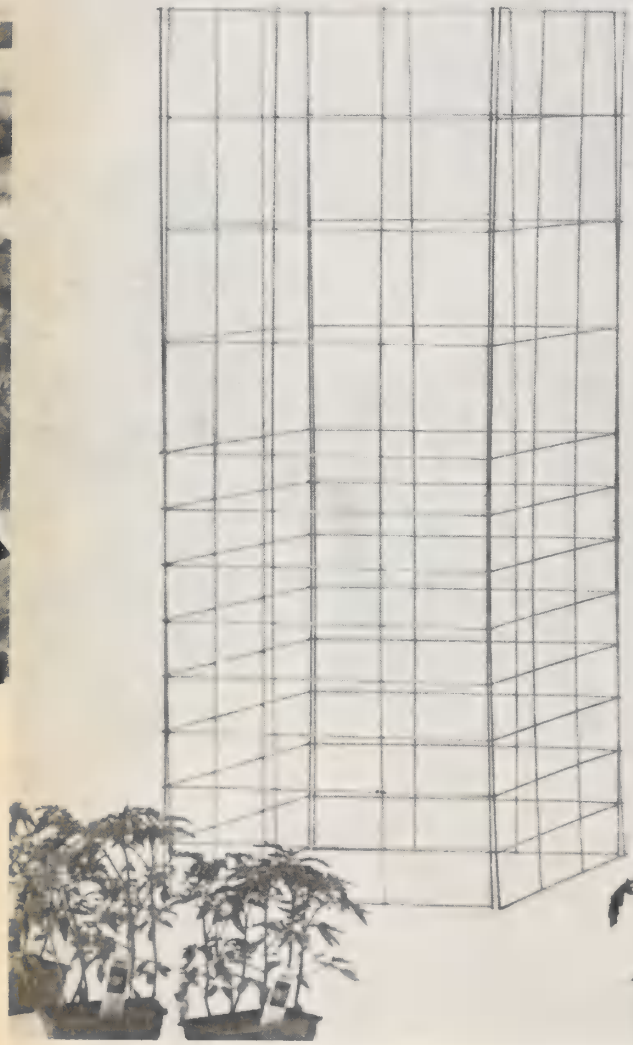
Whatever voters decide in next month's election, the Delta will still face difficult problems. Here are some:

Levees. Of some 1,100 miles of levees in the Delta, certain sections are candidates for failure. Major question: who will bear the increasingly high cost of levee repair?

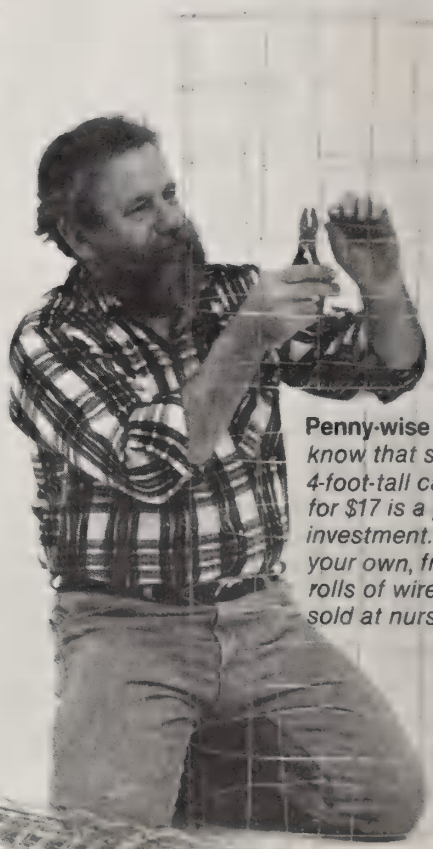
Subsidence. Many islands and tracts lie 10 to 20 feet below sea level; in several areas with peat soils, land is subsiding at the rate of about 3 inches a year. The danger: as land subsides, increased water pressure on already weak levees raises chances of breaks.

Flooding. Holland, Jones, and Webb tracts have been recent flood victims; more are predicted. One critical concern: will islands that flood in the future be reclaimed if the cost exceeds the value of the land? □

Cadillac gardeners *appreciate its roomy size (18 inches wide, 4 feet tall), removable sides, and heavy-duty metal. Other luxuries: add two extra sides from a second cage to make a hexagonal compost bin in winter, or collapse cages for easy storage. Mail order: $20, including shipping*



Basketball fans *like the look of this hoop-style model. Light nylon net bags much of the plant, but lower growth may escape. Additional support stakes may have to be brought in if light-weight center pole starts to wobble. Mail order: $11.20, including shipping*



Penny-wise ga *know that six 4-foot-tall cage for $17 is a pru investment. C your own, fron rolls of wire m sold at nurseri*

Taking the sprawl out of tomatoes

With these cages, sold at nurseries or by mail order. Or make your own

Gardeners used to struggle with t their tomato plants to stakes, or f problems of rotting tomatoes w plants were allowed to sprawl over ground. The idea of supporting toma in cages was first reported in *Sunse* 1961. We showed how to make cylin cal cages of concrete-reinforcing w available from lumberyards or buil supply stores.

Since then, manufacturers have cap ized on the idea—and improved upo Now gardeners can choose from a w array of tomato cages designed to o come the drawbacks of reinforcing w (This heavy wire is difficult to cut tends to rust.) The principal manu tured cages available are shown abov Many of the cages are less than 4 tall and are appropriate only for s

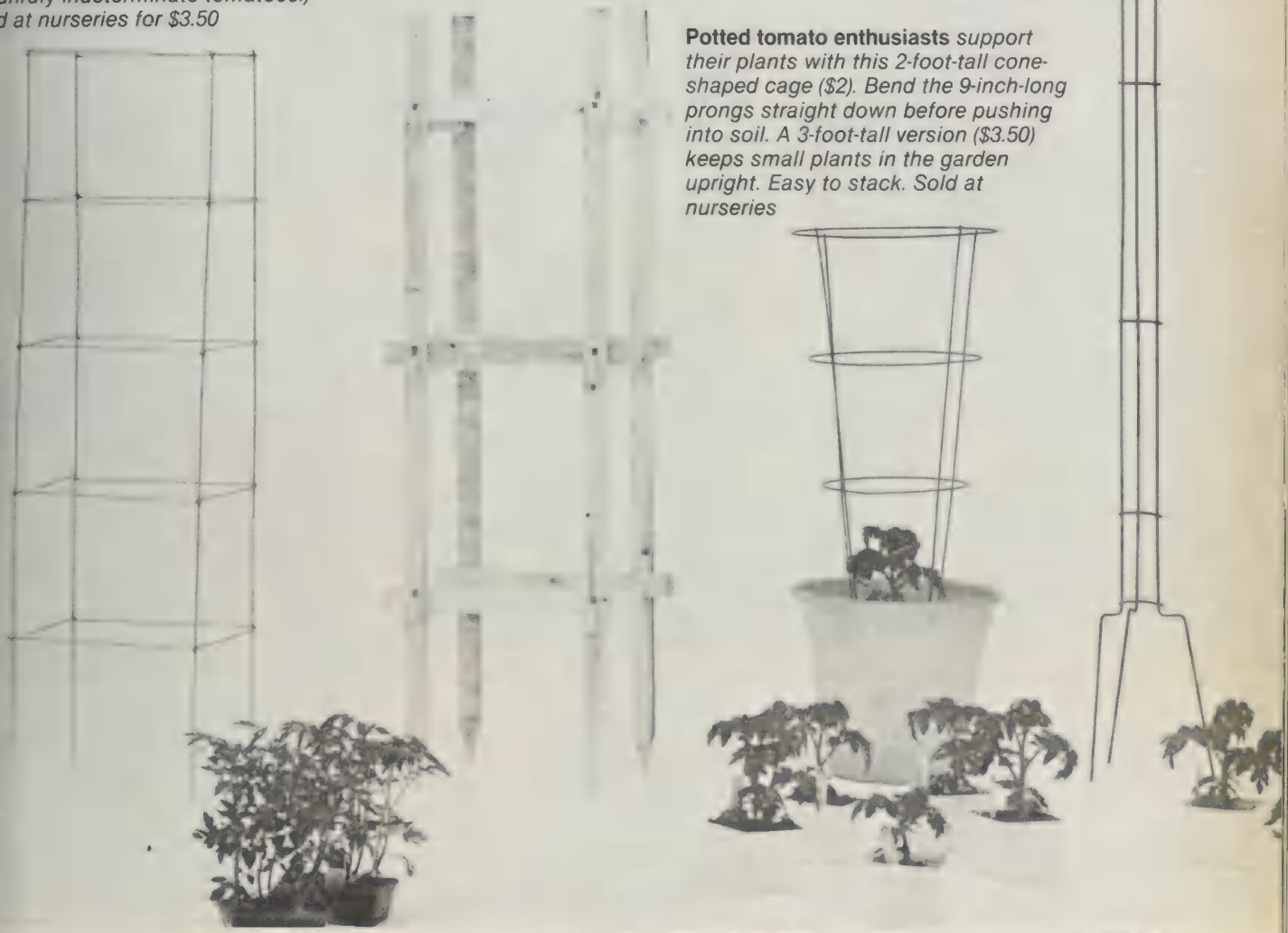
;ven styles, from roomy box to skinny pole

licated squares *like the ple, conservative lines of this e. With prongs pushed into ground it's 3 feet tall. (Not unruly indeterminate tomatoes.) d at nurseries for $3.50*

Rustic gardeners *go for the rough-hewn look of spruce, which weathers to mellow gray. Best for smaller plants. Easy to assemble. To protect wood, don't leave outdoors in winter. Mail order: two for $12, including shipping*

Ardent pruners *favor the skinny pole-type cage (4 feet tall after prongs are pushed into ground). It's easier to tie plants to this than to a stake. But research shows heavily pruned plants yield fewer tomatoes that are more likely to sunburn. Mail order: six for $20.50, including shipping*

Potted tomato enthusiasts *support their plants with this 2-foot-tall cone-shaped cage ($2). Bend the 9-inch-long prongs straight down before pushing into soil. A 3-foot-tall version ($3.50) keeps small plants in the garden upright. Easy to stack. Sold at nurseries*



DARROW M. WATT

Six-inch mesh *of cylindrical cage made from tomato wire allows easy picking*

NORMAN A. PLATE

rminate tomatoes (such as 'Flor-rica,' 'Ace', 'Pixie', 'Pearson', and lamette'). Cages 4 feet tall or larger a better choice for hefty indetermi- tomatoes, such as 'Better Boy', fsteak', and 'Red Cherry'.

v sturdy are these cages? Generally, ll cages with prongs at the bottom you push into the soil stand up y well under the weight of a moder-size plant. Cages for taller plants ally need additional support from 4-foot-tall wooden stakes driven the ground and tied to opposite sides e cage.

most flexible system is the roll of ato wire, since you can add extra ht to make it tall enough for ram-ctious indeterminate varieties. To do cut out a 2-foot tall cylinder to at-tach to the 4-foot base cylinder, cutting so prongs protrude; then twist the prongs around vertical wires of the main cage.

Ordering tomato cages by mail

Four of the cages shown here are available mainly by mail order. The square one on the far left is sold as a "tomato grow ring" by Ringer Corporation, Dept. S1, 6860 Flying Cloud Drive, Eden Prairie, Minn. 55344. The hoop with netting, called an "economy vegetable tower," is sold by Geo. W. Park Seed Co., Greenwood, S.C. 29647. The wood cage, or "tomato castle," can be purchased from Gardener's Eden, 25 Huntington Ave., Boston 02116. The skinny cage on the far right is sold as a "tomato tower" by Rocky Mountain Seed Co., Box 5204, Denver 80217. □

Neon now

As art, people are getting serious about it. Around the house, it's colorful, fun, energy-efficient

Neon-maker *uses man-in-the-moon pattern drawn on asbestos pad to guide his bends and spirals. For each, he heats tube in cross-fire unit, while blowing air in to help keep tube walls uniform in thickness*

Nearly 60 years have passed since the first neon sign in the United States proclaimed PACKARD in glowing ribbons of color above a Los Angeles auto dealership. Fittingly, L.A. is evolving as the center of a neon revival, with the luminous liquidy designs finding a new role in residential illumination. And the world's first neon-art museum is now open, recognizing the medium's potential as both fine art and folk art.

Like its natural cousin—lightning—neon light is produced when electricity passes through a gas. It was invented in France in 1910 by Georges Claude, who lit up the sky above the Champs Elysées with the word CINZANO. Over the years in this country, it became the premier medium of expression on the American streetscape. But with the advent of colorful plastics in the '50s, the neon-making industry went into a decline. Craftsmen retired without training apprentices.

Today, it's still a craft that resists mechanization. Despite its name, six gases are used. Color depends on the type of gas and on whether the glass tube is clear, tinted, or opaquely colored with a fluorescent powder. Neon gas is orange-red. A combination of mercury and argon yields blue. Argon alone is lavender. Krypton is silvery white, xenon a pale bluish purple, helium a flesh tone.

The critical stage of production is the heating and bending of the glass tubes. Once tubes are spiraled and bent into shape, and the ends fitted with metal terminals, the air is extracted and the rare gas measured in. Tubes are then wired to a transformer.

Home uses. One reason for renewed interest is the film industry's rediscovery of neon for set design and special effects. On the home front, designers and lighting specialists cite neon's great flexibility —for energy-efficiency, for color, for fun. But remember, it's best as mood lighting; don't plan to read a book by it.

In fact, neon tubes use very little energy. The five-digit house number pictured at right draws the equivalent of a 7-watt incandescent bulb. Also, tubes can last for decades (they are not, of course, impervious to errant baseballs or gambolling pets).

A fixture's price depends on its size and the number of bends. Generally, p begin around $150, with fancy lett running several hundred dollars. T cate a fabricator who will execut original design, check a major y pages directory under Signs or Lig Fixtures—Retail; look for ads that tion neon; and start inquiring.

L.A.'s new museum. Only in the la years have fine-art critics and pa taken neon seriously. The Museu Neon Art (MONA), in a 4,600-sq foot former warehouse on the fring L.A.'s Little Tokyo, is aiming to hel

The nonprofit organization is seeki save, restore, and exhibit old neor cluding fine old theater marquees recapture the era when audi watched the cool neon glow of R Café Americain beckon Bergma Bogey in *Casablanca*. You'll also see "paintings" as the museum's log neon Mona Lisa by cofounder Lil kich—and sculpture such as the birt cake pictured here.

The address is 704 Traction Avenue extension of Second Street east of meda Street). Starting May 8, it w open Saturdays from noon to 5, c appointment (hours will expand in call 213/617-1580). Admission: $2.

Galleries elsewhere. In San Franc visit Neon, Neon at 3692 17th S (415) 552-4163; open Monday thr Saturday from 10:30 to 5. In Seattl to The Glass Showcase at 2948C lake East; (206) 329-1837; open Tue through Saturday from noon to 5.

High-visibility *house number was ma by Crystal Neon shop, Santee, Califor*

NORMAN A. PLATE

L.A.'s 200th birthday *is commemorated in sculpture by artist Eric Zimmerman*

n streaks *of pink and yellow add light and art to*
g room wall in L.A. architect Michael Rachlin's house

BILL ROSS

Chinese red glow *comes from kitchen sign that plays on their names: Dow and Sue*

Blue moon *and other popular motifs are for sale at Los Angeles' Custom Neon shop*

TERI SANDISON

Pungent French sauce *called "anchoïade" gives boldness to country-style main dish combining crisp vegetables, hard-cooked eggs, and thin slivers of prosciutto*

Celebrating vegetables

So many kinds are at their spring-tender best now.
Here are ways to show them off . . . appetizers to main courses

Sweet tiny peas, *fresh from the pod, quingly complement fruity white wine*

Leaves of Belgian endive *cradle lightly cooked asparagus tips; dip in tart sauce*

Knots *of pliable blanched onion go with exotic, easy peanut sauce*

TERI SANDISON

Fine strands *of mild string cheese temper the subtle heat in slender, fresh green Anaheim chili halves*

eet strips *of red bell pepper spread with creamy Brie make an elegant pairing*

springtime warms the gardens and nlands of the West, a new bounty of h and tender vegetables presents it- again. On our cover and in these es, we show some ways to appreciate delicate young vegetables of the sea- —presented at the table with a fresh artistic simplicity.

ogether, there are 11 suggestions here, n giving vegetables a chance to show —to be the meal's star attraction.

· two main dishes bring together sea- al vegetables with a sauce and a com- nentary cold meat. The appetizers see above combine playfully surpris- pairings of flavors and form. Turn the page for more ideas for using tiny, tender young vegetables. (If you have your own vegetable garden, these might be thinnings from summer crops.)

Spring Green Supper

Trim tough tops and roots from 3 to 4 medium-size **leeks** and pull off coarse outer layer. Split lengthwise and rinse under cool running water. Tie each half-leek together at midsection with twine.

Snap tough ends from 1 pound slender **asparagus,** pull strings from ½ pound **edible-pod** or sugar snap **peas,** and cut 1 medium-size (about 1⅔ lbs.) **green cabbage** through core into 4 to 6 wedges.

In a 5- to 6-quart pan on highest heat, bring 3 quarts **water** to a boil. Cook vegetables, one kind at a time, pushing down into liquid. Let cook, uncovered, until vegetable is bright green and just barely tender to pierce: 3 to 4 minutes for leeks, about 3 minutes for asparagus, about 4 minutes for cabbage; and 2 to 3 minutes for peas.

At once, lift vegetables from water (cook in a wire basket or remove with a slotted spoon) and immerse in **ice water.** Lift out and drain. (If done early in the day, cover and chill.)

Arrange vegetables on a platter, accompanied by about ¾ to 1 pound thinly

Tiny squash, beets, carrots, potatoes . . . the early harvest

GLENN CHRISTIANSEN

Squash just forming *from flower base is warmed in butter to garnish rice*

Tiny cooked beets—*harvested early, perhaps for edible green tops—go with horseradish cream and pickled herring as a first course*

TERI SANDISON

Baby potatoes *are roasted with rosemary in golden olive oil. They're served touchably hot, to pinch and dip in salt as an appetizer*

Utterly simple, *utterly carrot thinnings, too are peeled for springtime*

ced **cooked ham,** or plain or smoked key, chicken, or pheasant.

company with green sauce: In a nder at high speed or in a food proc- or, whirl until fairly smooth 1 **egg,** 3 blespoons **lemon juice,** ½ cup packed **tercress leaves,** 1 tablespoon **fresh tar- gon** (or ½ teaspoon of the dry herb), d 2 teaspoons **Dijon mustard;** slowly ur in 1 cup **salad oil.** (If made ahead, ver and chill as long as overnight.) ur into a bowl. Makes 4 to 6 servings.

choïade Dinner from Provence

a blender on high speed or in a food ocessor, whirl until fairly smooth 2 d-cooked **egg yolks,** 1 **egg,** 1 can (2) **anchovy fillets** with **oil,** 1 tablespoon pped **shallots,** and 1 tablespoon **ite wine vinegar.** Slowly pour in 1 cup **ve oil.** (If made ahead, cover and chill ong as overnight.) Pour into a bowl.

sh these well, then arrange in a flat ket: 8 to 12 inner stalks of **celery** with ves; 12 to 24 **radishes** with tops, 10 to trimmed **green onions,** 2 or 3 **green** red **Anaheim chilies,** 2 or 3 large **red** green **bell peppers,** 12 to 18 **green ns,** 8 to 12 **Italian-style** or small **to- toes,** 4 to 6 small whole **artichokes** arse outer leaves broken off, bottoms med and rubbed with **vinegar**—you just the tender base of each leaf), and o 6 hard-cooked **eggs.** Accompany h ⅓ to ½ pound paper-thin slices of **ed ham** such as prosciutto or West- lian.

a serving, select some of each item; peppers and tomatoes to eat. Accom- y with sauce. Makes 4 to 6 servings.

s in the Pod

ct **pea pods** with small peas; rinse drain. Serve with a chilled, fruity- e **white wine** such as Chenin Blanc, würztraminer, Emerald Riesling, Jo- nisberg Riesling, Sauvignon Blanc, or né Blanc. Shell peas to eat. Allow 8 0 pods for a serving.

l Bells and Brie

ow 1 large **red bell pepper** for 2 to 3 ings. Cut out stem and discard, shake seeds, and pull out pithy interior. m open end of pepper, cut down to not through base, making strips ut ½ inch wide. Pile peppers, cut s up, in a flat basket (lined with green es, if desired) and accompany with a nk of **Brie cheese;** allow about 1 ce of cheese for a serving. Break off ps of pepper and spread with cheese.

paragus in Belgian Endive

u will need an equal number of **as- agus** spears and large outer leaves n **Belgian endive** heads (or small er leaves of romaine lettuce). Cut as- agus tips about the same length as the es; if desired, peel the stalk with a etable peeler (reserve remaining ten- der sections of asparagus for other uses).

Rinse endive in **cool water,** drain, and chill. Briefly cook and chill asaparagus tips as directed for Spring Green Supper on preceding page.

To serve, arrange leaves on a tray with a spear of asparagus in each. (If made ahead, cover and chill up to 5 or 6 hours.) Pick up leaf and spear to dip into mustard sauce made by whisking to- gether 2 teaspoons **Dijon mustard,** 2 tablespoons **white wine vinegar,** and ¼ cup **olive oil** or salad oil. Allow 3 or 4 spears and leaves per serving; the sauce will accommodate about 24 spears.

Onion Knots with Ground Nut Sauce

Rinse 2 to 3 dozen **green onions** and cut off roots. Immerse onions, a few at a time, in **boiling water** just until green ends begin to get limp, about 20 seconds. Lift out and at once immerse in **ice water;** as soon as cool, lay onions out straight on cloth or paper towel to drain.

Pull tough outside layer (or layers) off each onion. Tie each onion in a loose knot so that white end protrudes about 1 inch, and trim off green end about 1 inch from knot.

To prepare sauce, blend together ¼ cup *each* **chunk-style peanut butter** and **plum jam,** 1 tablespoon **soy sauce,** and **liquid hot pepper seasoning** to taste. Spoon into a small bowl.

Arrange onions on a tray with sauce. (If made ahead, cover and chill up to 5 or 6 hours.) Dip white ends into sauce to eat. Makes 2 to 3 dozen appetizers; allow 2 or 3 for a serving.

Green Chilies and String Cheese

Pull 6 to 8 ounces **Armenian string cheese** into very fine threads (if done ahead, cover, chill up to several days).

Cut 6 to 8 **green** or red **Anaheim chilies** in half lengthwise; cut off stems and scrape out seeds. Cut each piece in half crosswise. Arrange chilies, cut sides up, like spokes around outside of platter. Pile string cheese in a mound in center. To eat, fill a chili section with strands of cheese. Makes 24 to 32 portions; allow 2 to 3 for a serving.

Sautéed Peewee Squash

Select immature **zucchini** or crookneck **squash** (about ⅜- to ⅝-inch diameter), with or without blossom attached; rinse and drain. Choose a frying pan in which squash fit side by side without crowding. Put empty pan on medium-high heat and add enough **butter** or olive oil to coat bottom generously. Add squash and heat through, shaking pan gently for 3 to 4 minutes. Serve as a vegetable or garnish. (Allow about 4 or 5 squash per serving.)

Roasted Baby Potatoes

Select small **potatoes** (1-inch diameter or smaller); scrub, then arrange in a single layer in a shallow pan. Pour **olive oil** around to make ¼-inch layer. For each 1 cup potatoes, stir in 2 tablespoons minced **red onion** or shallots mixed with ½ tablespoon **lemon juice** and lay on a 3- to 4-inch sprig of **fresh rosemary** (or ½ teaspoon of the dried herb).

Bake in a 400° oven, shaking occasion- ally to rotate in oil, until largest pota- toes give readily when pressed, 25 to 40 minutes. Let cool until just comfortable to touch. Garnish with **rosemary sprigs.**

To eat, pinch a potato to split and absorb some of the oil, then dip in a little **coarse salt.** Allow about ⅓ cup potatoes for 1 appetizer serving.

From our cover, *spring vegetable dinner combines lightly cooked green vegetables with a creamy tarragon-watercress sauce, sliced ham, and hot, flaky croissants*

Bantam Beets with Sauce and Herring

Select small **beets** (1-inch diameter or less). Trim all but about 2 inches of the tops and leave on roots. Scrub, then steam, covered, on a rack over several inches of boiling water (or cook, covered, in **simmering water** to cover) until tender when pierced, 25 to 30 minutes. Let beets cool; then, with your fingers, gently slip off the tough outer layer.

Flavor **sour cream** to taste with **prepared horseradish.** For each serving, allow 4 to 6 beets, 2 to 3 tablespoons seasoned sour cream (top with chopped **chives,** if de- sired), and 3 to 4 slices **pickled herring.**

Peter Rabbit's Delight

Select tiny **carrots,** such as those pulled for thinning, and carefully peel. Immerse carrots and tops in cold water to rinse; pluck off any coarse leaves. Serve, or if made ahead, wrap carrots and tops while wet in paper towels or cloth, put in plas- tic bag and chill as long as overnight. Allow 1 carrot per bite. □

NORMAN A.

Elevating plants *to window height for a closer look, 8- by 10-foot beds use soil excavated for house addition. Recessed lag screws secure half-lapped 2 by 10's*

Big box gardens

The raised bed idea in different shapes, heights, materials. For easier maintenance, soil improvement, bold good looks

addition to garden design, *semicircular bed levels area for kitchen garden, eliminates runoff. Plant rows follow same circular rn. Concrete footings anchor 4-foot 6 by 6's set 2 feet into soil. Design: Lifescape Ltd. for Heather Fox, Englewood, Colorado*

ting changes of level *on a flat lot, cluster of owner-built raised beds s from 6 to 24 inches high. Tallest beds have alternating butt joints d to 4-by-4 corner posts; lower ones are screwed 2 by 6's. n: Larry Zukowski & Associates for Tara and Steven Falb, Tucson*

Solid good looks *of brick beds enhance vista of sloping garden from house. Each bed has faucet with length of soaker hose. Design: Huntington & Kiest*

d beds, big box gardens—whatever re called, their usefulness in gardens disputed. Here, in nine gardens, we ways they benefit plants and make ier for gardeners. The photographs selected to give an idea of design ns and to show how well the beds nost any garden terrain.

otherwise plain garden plan, raised are bold—yet orderly—design ele- s. Note especially the circular bed e and the brick ones at right.

ing changes in level where there none gives a feeling of importance cale, as in the cluster in the Tucson n seen above. Often slopes go d or are hard to plant; you can stabilize them and create level gardening space by building terraces that function as low retaining walls.

Hardpan, rocky or poorly drained soil, or too much paving aren't receptive to gardening, but all these situations can be remedied with a raised bed. You might make one—essentially a giant bottomless planter—directly on a patio, terrace,

Easy to reach, *each raised bed is only 4 feet wide but of varying length; beds follow gentle slope. Owner: Harriet B. Drake, landscape consultant, Portland. Design: Huntington & Kiest*

Big boxes, stacked, can hold a hill

With a 2-by-8 cap *to sit on and to protect plants from children and pets, beds reclaim steep corner of a Tacoma lot. One bed is a temporary sandbox. Design: Roger Hill, R. David Adams Associates*

or driveway. It could be a temporary device, to be changed later.

It's easier to garden with raised beds

By elevating plants, you bring them closer to view. And if you make the bed high enough, you can do most of your gardening without stooping or squatting —a boon to those with bad backs. If you build a wide cap, you can use it as a seat where you plant, cultivate, and pinch off dead blossoms in comfort.

For wheelchair gardeners, make the beds narrower so it's possible to reach in from all sides. You'll have to suit the beds' height to the wheelchair and the gardener's mobility.

Soil in raised beds tends to warm faster in spring, getting plants off to a quicker start—especially in soil closest to wood or masonry walls that absorb the sun's heat. (The warmer soil tends to dry out faster, so you have to water more often or use a mulch to slow the drying.)

Use raised beds to group plants of similar color or watering requirements, or to confine them: no more rambunctious squash taking over and shading out their neighbors. Note the attractive display made by those in the color picture.

The walls of a raised bed deflect children and pets, wheeled toys, dragging hoses, and garden carts. If gophers and moles are a problem, you can put ½-inch galvanized wire mesh across the bottom and up the sides of the bed; staple it to the wood frame so the critters can't find any opening to squeeze through.

Starting from scratch

Our photographs show the diversity of raised beds, from rustic-looking wood to more tailored, more permanent brick.

For wooden beds, use rot-resistant redwood, cedar, or pressure-treated lumber that is 2 inches thick (or thicker) to prevent buckling. Frames only one board high can rest on the ground with no terior support; deeper frames may n corner and side posts. Some builders posts in concrete below ground; oth feel that holding them with tamped ea is sufficient.

Instead of posts, galvanized steel st with carriage bolts or lag screws— wooden cleats or steel plumber's tap can join two layers.

When using boards for the sides (ra than 4 by 4's or larger members), can use simple butt joints or m stronger crosslap joints, as pictured page 104.

Use native soil plus amendments (s as redwood compost) and fertilizer in beds. Usually you don't have to 'm special provisions for drainage: gra and spaces between the wood do work. In the brick planter, weep h were left by omitting mortar betw some bricks in the bottom course.

Holding a hill, *terraces for ve are alternative to bulky retaini 4 by 6's, held by vertical every 6 feet, have 2-by-6 cap. John Herbst, Jr., for Barb Norman Acker, Lake Oswego,* NORMAN

Steep slope *turned into easy-to-get-to vegetable factory: steps join three levels; 10-inch spikes secure 6-by-6 pressure-treated timbers. Design: Lifescape Ltd. for Diane and Neal Groff, Englewood, Colorado*

Previously wasted space, *a narrow, sunny bank below level of main garden now produces an exuberant crop of vegetables in well-drained beds that terrace and hold the slope. Design: Huntington & Kiest, Portland*

Exposition Park

Visitors risk wet feet on a rainy-day walk in the West's largest rose garden, below 1913 façade of Natural History Museum

Descanso Gardens

Red 'Chrysler Imperial' (foreground) blooms on east side of modern rose garden

JERRY FREDRICK

Lessons from the rose masters

You can learn much in and from L. A.'s big rose gardens. Four experts share their secrets on growing magnificent blooms

DON NORMARK

Huntington Gardens *Volunteer rosarian, one of several, looks for faded flowers to cut back during the blooming season*

PHIL EDINGER

Rose Hills *Weeeping pink tree rose 'Winifred Coulter' is a showstopper near garden's west end. Trunk grows on a pipe frame; canes branch out like an umbrella*

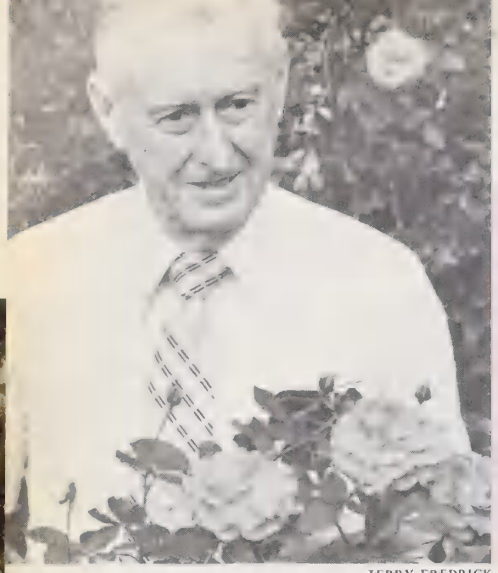
re are more ways to grow beautiful s than you might think. Here we onstrate that point by taking you on to four big public rose gardens in near Los Angeles, the largest con- ration of publicly displayed roses in West.

se two pages show the roses in bloom, on the next two pages you can read etail how each garden's rosarian (the one in charge) grows them.

The four rosarians differ considerably in how they control pests, prune, mulch, and water. But there are two things that they all do alike: apply lots of fertilizer at one or more times during the year, and water on a definite schedule.

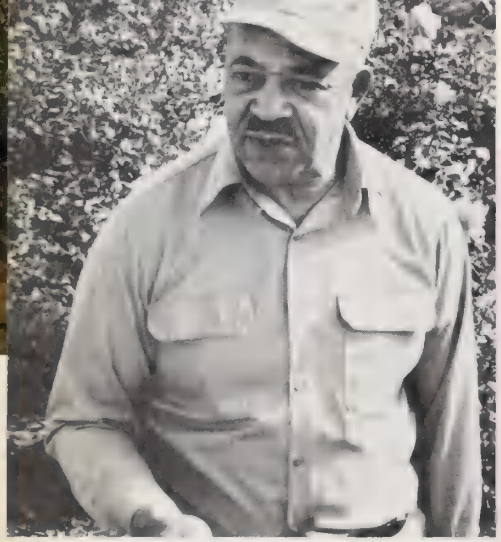
If you garden at a low elevation in northern California, Oregon, or Washington, you must make seasonal adjustments in doing a few of the things that the Los Angeles rosarians recommend. In high elevations, you must make even bigger adjustments: in fertilizing dates, spraying dates, dormant pruning dates, and dormant pruning heights (in very cold winter climates, probably no rosarian would dormant-prune as high as three of the Los Angeles rosarians do).

But all the other things—watering, feed-



JERRY FREDRICK

Jim Kirk's *roses won trophies at rose shows for 25 years. Before he took over at Rose Hills in 1973, he was a field inspector for Armstrong Nurseries*



George Lewis, *superintendent at Descanso Gardens since 1972, was previously at the Los Angeles Arboretum for 13 years*

ing, mulching, weeding, pest control, summer pruning—are safe to be tried by any rose grower in Western America.

If you should find yourself in Southern California anytime from now to November, you might like to visit one or more of these gardens.

Exposition Park's 12,076 plants make it the biggest in the West. Six other Western rose gardens in the size range of the four described here are: International Rose Test Garden in Portland with 10,000 plants; San Jose Municipal Rose Garden with 6,500; Woodland Park Rose Garden in Seattle with 5,000; Morcom Amphitheater of Roses in Oakland with 5,000; the George E. Owen Municipal Rose Garden in Eugene with 3,500; and Point Defiance Park Rose Garden in Tacoma with 3,000.

The gardens: where they are, when they're open

Rose Hills, 3900 S. Workman Mill Rd., Whittier. Drive south on Peck Road from the Pomona Freeway (State Workman Mill; continue south to trance. Open daily from 7 to suns

Exposition Park, 701 State Dr., L geles. Take Exposition Boulevar from the Harbor Freeway (Sta turn left on Figueroa Street, ri

What do roses n

How are the plants watered and fed? | **What about weeds and cultivating?** | **What plant dama How to stop them**

Rose Hills . . . 2½ acres, 7,000 rose plants

"We always water in the early morning, probably twice a week in summer, maybe once every two weeks in winter, depending on how much rain we get. We have fixed overhead sprinklers.

"We feed with a 16-16-16 fertilizer (it also contains iron and chelates) once a month from February 1 to September 1. We apply it on top of the mulch and water it in."

"A 3-inch thick layer of shredded redwood bark over all the soil keeps weeds out. We put it on right after we plant the roses or when they're dormant and pruned. This eliminates most weeds.

"I don't believe in cultivating roses. I do have to change the beds under the magnolia every 2 or 3 years. Then we rotary-till a foot to chew out the magnolia roots."

"Once a month fro ary 1 through Septe we spray the entire with a mixture of m systox-R (a systemi cide), benomyl (a fu and plictran (a miti water well the day and the day after. our biggest problem

"I also try to keep washed off—that's sisted on overhead

Exposition Park . . . 7 acres, 12,076 rose plants

"Although we use oscillating sprinklers, I think flooding would be better. In the dry months, we water 3 to 4 hours at each setting once a week. We stop by 1 P.M. Watering later in the day can cause mildew. We don't water from December until early February.

"We broadcast-spread 15-5-7 granules (the nitrogen is slow-release) thrice yearly."

"After winter pruning, we put on steer manure 2½ to 3 inches deep and rotary-till it to about 6 inches. We don't cultivate much, but leaf raking turns some surface soil over, too. If the ground gets too hard, we loosen it with a four-prong cultivator.

"We have pretty good results in controlling Bermuda, portulaca, and nut grass with glyphosate in the summer."

"We alternate betw orthene and meta-s to control aphids a worms, and betwee carboxin and zineb For mildew we use Acti-dione PM.

"We rake the groun of leaves after dorm pruning to check ca of leaf diseases."

Descanso Gardens . . . 5 acres, 2,520 rose plants

"Lateral spaghetti tubes run from a central line into each plant's watering basin. We water this way once weekly until early November. We don't use it again, unless it's very dry, until pruning is completed in late January.

"We feed in March, May, and August. Last year we used an 11-8-4. We water in 2 or 3 handfuls at the perimeter of each watering basin."

"We don't do any mulching or cultivating. After pruning we rake every square inch of soil. In spring we make 2-foot-wide watering basins around each plant. In those basins in the fall, we use a pre-emergent herbicide like Dacthal. Weeds that we don't get that way we spray with glyphosate. We do some hand weeding also —elbow grease and a hoe."

"If we see an insect damage, we spray. use meta-systox-R spring for aphids a every once in a whi looper worms. We spray after winter

"Last year, deer str roses (ate just the f in early October. It a pruning process: brought the greates roses you've ever s

Huntington Gardens . . . 6 acres, 4,000 rose plants

"During the dry season we water each bed weekly with fixed-head sprinklers for 30 to 45 minutes each, depending on weather and soil conditions.

"We feed each March with Osmocote 14-14-14 in slow-release pellets, putting it on by hand, about half a cup per bush—so each time we water, the plants get some nutrients."

"We try to keep weeds out with the compost mulch that we apply 3 or 4 inches deep. The compost mulch gives added nutrients to the roses. If it gets too thin, weeds pop up. We hoe them, being careful not to disturb the roses' feeder roots.

"Compost is our own—we collect and process all the prunings and plant debris from our entire garden."

"Not a single insect miticide has been our rose garden in five years, and we'r we're better off for an explanation and chemical alternati page 258.]

"We do use a fungi —triforine (Fungi every two weeks, through November mildew under cont

ne rosarians don't always agree

ing and grooming—winter and summer

ng the blooming season we contin-
emove faded flowers, clipping them
soon as they begin to look dry or
d. When we cut the flower, we cut to
ide or outside eye, whichever will
ne bushes keep their shape. We grind
blooms in our brush grinder and
them in the compost pile. In June we
the miniatures back a little with
shears, and then in the fall we prune
ack to an inch above the mulch.
tart our dormant pruning of the
teas right after Christmas and we always finish by the first of February. We remove the old canes and save the new canes, cutting them back to 10 to 15 eyes (counting from the bottom). Usually, 10 to 15 eyes make a cutback cane that's 10 to 14 inches high.

"If it's a scrawly-type plant, we'll make the dormant pruning cuts to inside eyes. If it's an upright plant that's very leggy, we'll cut to outside eyes. We'll shape it the way we want it to go. I feel roses are just like kids; they're beautiful but they have to be controlled."

re flowers start fading or dropping
, we attempt to snip them off. We try
let them go to seed, because it takes
ut of the plant. But some do, so we
hips too—it's a daily routine.
er we're cutting fading flowers or
ve cut back to a leaflet leaving two or
uds on the portion of branch that
s. We also cut back some vegetative
during the year so we can get into
ds.
ave a standard formula for dormant-
g our hybrid teas. We try to leave four canes on each plant. Most of the canes are new, but some might be a year or two old. We might have to sacrifice a new cane if it's growing the wrong way—often keeping an old cane that's growing in the right direction.

"We cut all four canes to an outfacing bud about 2½ feet high. The prunings we discard."

ng the peak season from April to
er, someone goes through the garden
day to cut off the three-day-old
s. We call that deadheading. The
rom the guild come in once a week
llect the petals from the removed
to use in potpourris.
eadheading is a method of pruning,
e with each flower we cut the stem
about the fifth set of leaves from
(4 to 8 inches, depending on the
). The stem is fairly thick at that
From the bud that grows there we get another branch which carries the next set of flowers.

"We start the dormant pruning program the first of December and try to finish in early January. First we remove the deadwood. Then we remove all branches that are crossing. (The object is to keep the inside of the plant as open to the sun as possible.) Then we prune the remaining five to seven well-spaced canes to outside-facing buds about 14 to 18 inches high. Prunings go to the compost pile."

spring through fall, our volunteers
ugh the rose beds as frequently as
e cutting off old flowers and hips
hey remove goes onto the compost).
e told to cut the stems back, leaving
five eyes on the remaining stem.
visitors come to the garden in
k before New Year's, so we prune
ximum flower display then, like this:
September and early October we
noderate pruning to force growth
l carry that bloom.
pruning comes between January 1 and February 15. We prune very lightly: hybrid tea branches to about 42 inches high, floribundas about 30. We leave all producing canes—taking out nothing but dead, damaged, or crossing wood.

"We also prune to a pleasing 'flowering shrub' shape. This is unconventional, but it gets us fast spring growth and flower display. Hard pruning (to three or four eyes) is not necessary in Southern California."

Ted Hata *propagates roses as a hobby. Of his 14 years in city landscaping, he spent the last four as senior gardener at Exposition Park*

John C. MacGregor IV, *a horticulturist at Huntington Gardens for 10 years, supervises the central garden areas. He's also a professional photographer*

e. Open daily 8 to 5, including holi-
s (closed December through Febru-
for pruning and renovation).

canso Gardens, 1418 Descanso Dr., Cañada Flintridge. Drive east on Ver-
o Boulevard from the Glendale Free- (State 2) or take Angeles Crest Highway from the Foothill Freeway (Interstate 210) and follow the signs. Open daily 9 to 5 except Christmas. Admission: $1 for adults, 50 cents for seniors and children.

Huntington Gardens, 1151 Oxford Rd., San Marino. Westbound on I-210, take Allen Avenue exit; drive south 1.3 miles. Eastbound, take Hill Avenue exit and follow the frontage road to Allen. Open 1 to 4:30 Tuesday through Sunday except major holidays. Reservations required for Sunday; call (213) 449-3901. Voluntary parking fee is $1. □

Tortilla cones, bowls, lids

You shape them as you fry them

DARROW M. V

Wrapped *around foil mold, flour tortilla holds shape while frying crisp*

Fill cone *with thick meat sauce, top with onion, cheese, and hot sauce*

Shaped *like an ice cream cone, crisp walk-around taco holds meat sauce. Napkin catches drips*

Form follows function is a precept we've borrowed from the architectural world to take a designing look at Mexico's great flat bread, the tortilla.

Tortillas, shaped by simple molds and fried crisp, make edible cones or bowls. A flat tortilla makes a gustable lid. Flour tortillas work best for cones, corn tortillas make nice-sized bowls, and either works fine for lids.

Taco Cones

For each cone, you'll need 1 flour tortilla, 7- to 9-inch size, at room temperature. To make cone mold, fold a 10-inch square of foil into a triangle, then loosely roll foil into a cone. (For faster frying, shape extra cones.)

In a deep 10- to 12-inch frying pan over medium-high heat, bring 1 inch salad oil to 375° on a deep-fat thermometer. Roll 1 tortilla at a time into a cone; secure with a wooden skewer; insert cone. Fry, turning with tongs, until and golden, about 30 seconds. Lift from oil, drain briefly, then set on p towels. When cool enough to handle move foil and skewer.

Serve or wrap airtight and hold at r temperature up to 1 day. To reheat c crisp, put cones in a single layer on

Floppy *tortilla lid keeps melted cheese appetizer warm. For each portion, combine ¼ cup cooked, crumbled chorizo with ½ cup diced jack cheese in a small bowl. Bake at 400° to melt cheese, 8 minutes; or cover with plastic wrap and heat with microwave on full power for 45 seconds. To eat, spoon onto torn tortilla*

ıake bowl mold, *puncture bottom of can places; stagger 4 more holes along base*

As it fries, *tortilla comes up around can to form crisp, scalloped bowl*

Fill these edible bowls *with thick and meaty chili or stew, or poached eggs in spicy sauce*

sheets, uncovered, in a 350° oven for ›ut 5 minutes. Fill and serve as shown.

rtilla Bowls

· each bowl, you'll need 1 corn tor-ı, 6-inch size, at room temperature. ke mold from a 10- to 12-ounce can .hown above.

ı deep 3- to 4-quart pan on medium-h heat, bring 2 inches salad oil to 375° on a deep-fat thermometer. With tongs, hold open end of can as you lay tortilla on the oil. Immediately set punctured end of can on center of tortilla and push it down into the oil. Fry until crisp and golden, about 30 seconds. Lift can with tortilla from oil, drain briefly, then set on paper towels to cool slightly.

Protecting your hands, carefully twist and pull tortilla bowl free.

Fill and serve or wrap airtight to hold; reheat as directed for taco cones.

Tortilla Lids

Use 6-inch corn or 7- to 9-inch flour tortillas. Stack up to 6 and wrap in foil. Place in a 350° oven until warm, about 15 minutes. Or wrap up to 6 tortillas in plastic wrap and heat in a microwave oven on full power 30 to 45 seconds. □

Thinking thin

No wider than 20 feet, these houses seem spacious. They offer ideas for space efficiency

Being narrow doesn't mean a house has to be small and cramped. Although none of the three houses shown here is wider than 20 feet, they seem surprisingly spacious inside.

These space-efficient houses all sit on steeply sloped lots. The barrel-vaulted house at right stretches its 80-foot-length across the width of a south-facing lot for maximum solar gain. The other two houses run down narrow hillside view lots that might have been passed over just a few years ago.

Inside, changes of level follow each site's incline. Partial or full floor changes separate private zones (bedrooms, studies, and bathrooms) from cooking, eating, and entertainment areas, which are at the entry levels of all three houses. In the barrel-vaulted house, both the changes of level and the supporting posts act as implied walls to divide the interior; those tall posts also accentuate its height.

House-long views provide unexpected volumes. In each example, someone standing in the kitchen can look through the dining area to the living room beyond. Since the houses are essentially only a room wide, there are views outdoors from either side of most rooms.

Despite the constraint of narrow width, the owners find little problem with traffic flow. In the widest house (far right), Portland architect Jerry Ward centered a 9-foot-wide wall between the dining room and living room. The wall establishes a circular traffic pattern, and owners Linda and Nate Dickinson have had parties for more than 50 without a sense of overcrowding. In the other houses, careful planning for furniture placement minimizes traffic interruptions through rooms. □

16 feet wide *On a boulder-strewn lot above Fort Collins, Colorado, sits the three-story house of architect John Dengler. The tall main floor has a kitchen, dining area, and living room with a prefab fireplace angled against the stairs to the master bedroom*

NORMAN A. PLATE

feet wide *The distinctive curving rafters of Ann and Cecil Asman's house are made of three laminated 24-foot-long 1 by 4's. A floor of exposed egate absorbs the sun's heat from the wall of south-facing dows. Narrow, high windows on the north side of the house provide cross ventilation in summer. Design: Alex Riley*

DAVID STUBBS

20 feet wide *Three-story house steps down hillside lot in Portland. Top level has entry, guest bath, kitchen, dining and living rooms. Two sets of steps flank room-dividing wall, which has a cutout for space-sharing views*

GREGG MANCUSO

"Average Bowl" *brings two Belmont, California teams together for annual game. Video camera and "color man" (top, with microphone) record the action. Then the players retire to Bill and Gayle Cohen's home (bottom) to view taped heroics. Canvas catches the mud*

BILL ROSS

Video inventory: *Claude Hulet tapes as his wife narrates insurance record in their Woodland Hills, California, home*

Home videotaping is here and what are our readers doing with it?

The home videotape "revolution" has developed quickly.

Barely a half-decade ago, the first copy-off-the-television recorders arrived to add convenience to an essentially passive form of entertainment.

But the emergence of new lightweight cameras and recording gear has suddenly turned videotaping into a very *active* medium: in a growing number of Western homes, television is becoming a creative, do-it-yourself affair that lets you go beyond the limits of standard home movies.

What is video all about? To find out, *Sunset* editors tested equipment first-hand and talked to video-wise readers around the West. We found surprising inventiveness (some of it shown on these pages), along with cautions about purchase and use.

What equipment do you need?

Do-it-yourself video involves three components: a hand-held *camera*, a shoulder-slung video cassette *recorder* (VCR) that you carry along with it, and a *tuner* that stays attached to your television.

The recorder and tuner are essentially a standard television-recording system split in half. The recorder contains the tape, operating controls, and a battery to power the camera. The plug-in tune transmits the recorded image to th screen, and has controls for recordin programs from the television for late viewing, when linked to the recorder.

Most systems use cassettes of ½-inch wide videotape in either of two standar sizes, or formats: "Beta" or "VHS" (the are not interchangeable).

Some relatively inexpensive black-and white cameras are available, but mos common and more rewarding are colo cameras with these typical features: mo torized zoom lens (from wide angle t telephoto) with manual focus (some ar automatic), a filter switch to adapt to th kind of light around you, a telescopin microphone, and an electronic view finder that is actually a tiny black-and white television tube that allows instar playback through the camera.

The video recorder operates much like standard audio tape recorder. The trick learning to coordinate between camer and recorder controls. (The videotap also records synchronized sound.)

The three components together are gen erally listed at $1,800 to $2,300 (half th total is for the camera). Some compet tive discounts are available, but man readers warn against buying from dis count suppliers who can't thoroughl demonstrate the equipment or provid access to parts and repairs.

For dealers, check under Video Record

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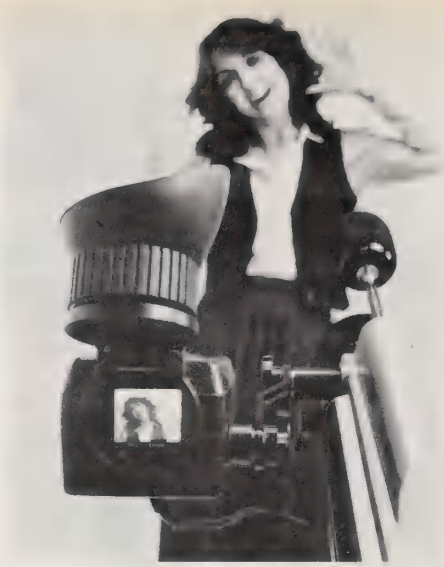
Cuisinart
Food Processor

Cable *links color camera to video cassette recorder. Microphone extends from camera top; his finger is pressing lens zoom control*



Viewfinder *is a miniature television tube: it shows what you're recording, provides instant playback. Eyepiece flips down for magnified view*

Tuner *(right) links portable recorder (left) to television. They can also record programs from the set—while you're watching, or while you're away*

ers in the yellow pages. It's not often practical to rent this equipment, since you need considerable trial-and-error practice to record with confidence.

Why video instead of film?

The choice is not clear-cut. For only occasional use, video hardware is expensive (a film camera with similar features costs less than half). Camera and recorder can be bulky, heavy, and sensitive. The battery provides for only an hour before needing a lengthy recharge through the tuner. Spare batteries cost about $40 each. (Most cameras can operate from 12-volt automobile lighters or through an adapter from a 110-volt wall socket, with restricted mobility.)

And unlike film, videotape cannot be readily edited.

But video offers a lot. Some $18 cassettes can record up to 6 hours (at some sacrifice of picture quality); the film equivalent, including processing, costs hundreds of dollars. You get immediate playback through the television, without a projector and darkened room.

Tapes can be erased, reused, or changed to allow accumulating different subjects on different tapes. Tape (electronic image on metal-coated mylar) is in ways stronger and longer-lived than film (chemical image on cellulose acetate). With an optional device, you can transfer old movies to tape. And you can use your system to record off the television or to show cassette-packaged movies.

Some video possibilities

Videotape's big attraction, according to readers reporting to *Sunset*, is versatility. Some examples:

- "Family albums": personalized tapes for different family members (some from the moment of birth), with new segments added on special occasions. Some send tapes back and forth to relatives, a form of electronic mail; others tape family oral histories.
- Sports training: slow motion and stop-action replay let you study your form in golf, tennis, horsemanship, running, skiing.
- Insurance inventories: a narrated tape in your safe deposit box can be a valuable record; you can add to it over time.
- Children's performances: if lines are flubbed, you can erase and start over.
- Speech and musical rehearsal: video is a dramatic means of critiquing y own expressions, performance, and p form manner.

Some video difficulties

Video is surprisingly tolerant of ina quate light (although the picture suffer), and outdoors color can be st ing. The sound is a weak point: the bu in microphones pick up any surround noise. (Optional directional micropho are available.) Readers and editors a had some problems finding prop sized spare batteries and other ac sories when needed.

"Power nervousness" is the biggest o ating worry: a depleted video battery fail with little warning.

NORMAN A. PLATE

Live-action family album *begins on their wedding day. David Findley and Cathleen Duncan of Palo Alto, California, had tape available for viewing on honeymoon, later sent it to relatives who couldn't attend ceremony*

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MICHAEL THOMON

Top shelf *holds baskets for books, games, stuffed animals. Other toys go underneath*

Toy cupboard rolls out of the wall

This roll-out cupboard stores toys conveniently under a staircase to help keep a playroom neat. Pulled out, it leaves a child-size under-stairs cubbyhole to play in; emptied of toys, it's a tea-party table.

Designed and built by Rex Waldron, Jr., the unit is made from two sheets of ¾-inch particle board cedar siding, and 1 by 2's. It rolls on four 2-inch-wide casters mounted on 2-by-4 blocks under the bottom shelf.

The two shelves are each 36 by 43 inches; 5- by 43-inch side pieces help hold in toys and stiffen the shelves. A 16- by 43-inch center support runs between the top and bottom shelves. At the back, shelves and center supports are attached to a 28½- by 37-inch end piece. The front end piece (36 by 40½ inches) is sheathed with cedar channel siding framed in mitered 1 by 2's. Masonry-trowel handles (available at hardware stores) are attached with ¼-inch bolts.

Sheathing and handles were stained before assembly. □

Rollaway storage cupboard *fits into otherwise wasted space under stairway*

Speed Queen. Washers built for a world where washday never ends.

hat's why you see so many Speed Queens in coin laundries...toughest world there is for a washer.

oad after load. 24 hours a day. Seven days week. A washer has got to be tough to ake it in the world of coin laundries. That's why you see all those Speed ueens in that world. We build them tough. And what makes Speed Queen best for e professional world makes it best for urs. Because the washer we build for you s the same built-in toughness.

You get the only stainless steel tub in the business.

e give you a tub that's durable stainless el. Unlike porcelain that can get roughed- from clashes with zippers, buttons and eaches, stainless steel actually gets oother and gentler the more you use it. clothes, like permanent press, will look newer and last lots longer. A stainless steel tub won't rust, chip or corrode, either. Only Speed Queen has it. And we guarantee it forever.*

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If it can perform year after year in their world, just think how long it will perform in yours.

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The washer we build for the pros is the washer we build for you.

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*After the first year, you pay any labor and transportation charges

JOSEPHINE COATSW

Is Oakland burning? *Eerie illusion of a city on fire is created when you look through 5-foot-deep firebox surrounded by ½-inch tempered glass*

Fireplace bay window saves the view

It's an unusual pleasure, but in Betty and Bob Mortens hillside house, you gather around the fire to look at the v Their custom fireplace, with its backing of tempered glas a frame of welded steel, allows them to enjoy the twinki city lights along with an evening fire.

Bob Mortensen designed the spacious firebox to extend feet behind the metal grate. Because the chimney vents directly above the grate, the glass needs to be cleaned once a year.

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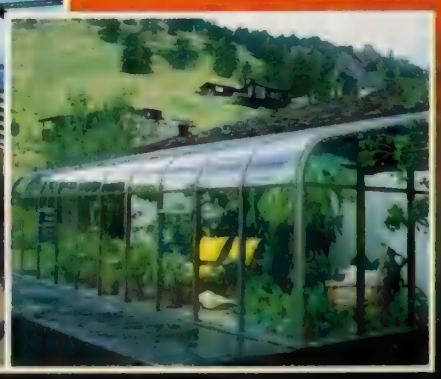

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5S

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A Mallinson-Denny Company in The Brooke Bond Group

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Somebody who was scared to death of refinishing, refinished this beautiful table."

Homer Formby, 3rd generation restorer and refinisher.

nd she did it in a matter of hours! Without a mess, ggle, or night course.

o ahead and say "impossible." That's what this lady said. nd honestly, before my simple yet revolutionary refinish- system, it was impossible. But thousands have learned refinishing doesn't have to be a terrible chore—thanks to nby Products.

ow, I've put together an Introduction to Refinishing Kit. ts the new refinisher get started immediately on a re- ling project.

Don't strip. It's immoral.

or years, the only way the non-professional could refin- was by stripping. But stripping is a disaster.

ore than a mess, stripping actually destroys the finish want to restore. By taking your piece down to the bare d, you remove the patina—the beautiful glow that's ted over time.

no time you can destroy 50 years worth of beautiful aging.

The Formby Formula.

e center of my system is Formby's Furniture Refinish- t does not strip, so it does not raise the grain and make edious sanding.

stead, it dissolves the old finish. Without any elbow se you'll watch the old, discolored varnish, lacquer and ac melt away. Along with any cracking or checking in the .

u're actually reaching back in time to the original finish. ssolving years of accumulated gunk. (Packed in the kit find my steel wool refinishing pads to work with.)

protect your piece after refinishing, I put Tung Oil var- nto my kit.

Ordinary varnish is brushed on top, so it sits on top. Formby's Tung Oil varnish is hand-rubbed into the wood. It brings out the patina and highlights the grain.

Refinishing without fear.

My refinishing products are used by professionals, antique dealers and museums.

Now, with my new kit, even more people can get started on refinishing the Formby way.

If I sound like a refinishing missionary, it's because I am. Refinishing is fun and fills you with pride. Refinishing saves money because you can rescue furniture that's been discarded in your attic or basement.

So if you've never refinished, now's the time. Because there's no feeling in the world like doing something with your own two hands.

Formby's is a registered trademark of Formby's Inc.

Formby's

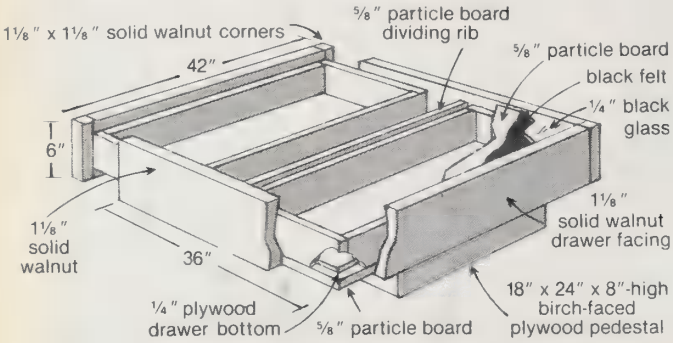
No one knows wood as good

© 1980 Formby's Inc.

Formby's products are available at better paint, hardware, home centers and department stores.

Storage at both ends of black glass table

Beneath the black glass top of this sleek coffee table are two wide drawers that keep tabletop clutter to a minimum. The drawers slide out of opposing sides on bottom-mounted metal glides. They're faced with 1⅛- by 6-inch pieces of black walnut, with 1⅛- by 1⅛-inch end pieces. The other two sides have matching walnut pieces. The ¼-inch black glass sits on black felt over a recessed particle board platform. The birch plywood pedestal base is painted black. Careful work throughout gives the fine detailed look. □

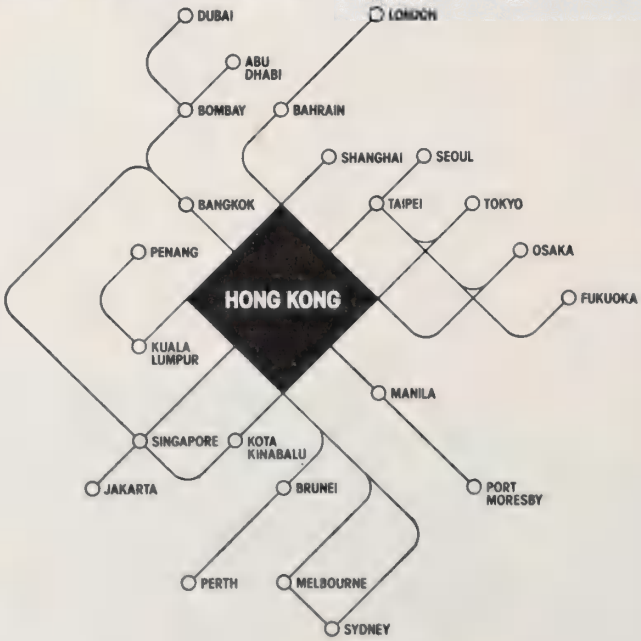


Particle board frame *is topped by black glass. Center divider adds rigidity; blocking (not shown) reinforces inside edges*

GLENN CHRISTENSEN

Clean-lined coffee table *has storage drawers built into two ends, rests on pedestal base. Portland architect Robert Cowman designed*

CATHAY PACIFIC



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The Japanese Gas and Diesel Beetle from Isuzu.

Some people may consider its exterior a trifle plain. But then, an Isuzu has always had thick skin.

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Gridwork, *brackets, and scoring give divider a simplified Victorian look. Vertical-grain fir was used throughout*

Victorian wall opens up in styl

Fresh ideas can come from reinterp ing old ones. That's what architect nifer Clements did when she was as to open up this small Victorian kitc in San Francisco. Her solution create sense of spaciousness without alte the structure's historical character.

Clements removed the wall betw kitchen and dining room, installing f posts in its place. An 18-inch-h wooden grid connects the tops of posts, visually separating the two roo without enclosing them. The divider simplified version of the spindlework lattice panels used along porches stairs in Queen Anne and shingle-s houses of the late 19th century.

Vertical scoring on the new kitchen land matches lines on the posts and original dining room wainscoting. Ab the kitchen sink, open shelves bridg window, providing extra storage.

DAVID STUBBS

Load-bearing posts *replace wall between kitchen and dining room. Now both rooms share each other's light*

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DAVID STUBBS

Adjustable slats *in deck rail give both privacy and view. With slats closed, railing also provides wind control*

Shut for wind control, privac Open for view

A view can be a mixed blessing—i can see out, someone can see in. beautiful Lake Oswego right ou their home, Ann and Peter Elser wanted to enjoy the view. But they wanted privacy for sunbathing on bedroom deck.

Portland architect James Oliver har the problem by designing a deck rail movable slats. He mounted standar lousie-window track with clips for inch-thick wood to horizontal 2 by 4 between 4-by-4 posts. Instead of he screwed 33-inch-long cedar 1 b in the openings. Now the Elsenbach open or shut all or part of the 42- high railing when they are on the dec

For added privacy, the deck's side are solid shiplap siding that matche house's exterior siding. All the wood stained to blend in.

Jalousie window track, *sold through glas companies, lets vertical slats pivot*

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Sealy Posturepedic

Sealy.

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Pull-down door is a heat-saver

Energy savings and privacy: this pull-down door in Marcy and Hanley Norins' Little River, California, house provides both—by shutting off a stairwell that, like most, lets heat and noise drift upward. When the Norinses aren't using their upstairs office and nap-sneaking space, closing the door prevents upward-moving hot air from being wasted.

Craftsman Dick Barham designed this door from ⅝-inch-thick redwood planks joined and braced by cross members on the upstairs side. It slides up and down between unobtrusive 1-by-1 guide strips, counterbalanced by two 25-pound fishing weights that almost precisely equal the door's weight.

The downstairs side has just one handle, set at the bottom edge so it won't strike against the upper frame when the door is raised. The upstairs side has an extra, higher handle to help users raise and lower the door without pitching down the steps. □

Counterweights *attach to blocks atop door. Each rope threads through two pulleys—one held outward from wall to keep weights from striking door*

DARROW M.

Up: *door lifts without effort. The balancing weights do the work.*

Down: *heat is blocked when upstairs isn't used; noise is blocked when it is*

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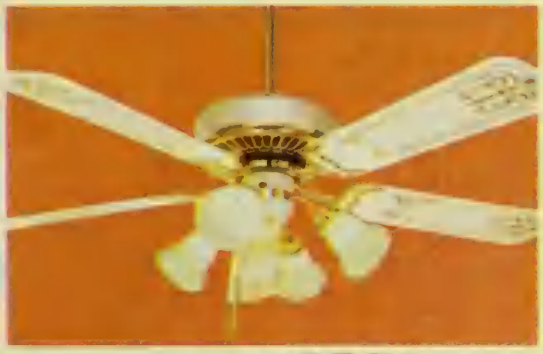
"Sure, I loved her. Who wouldn't? But I had my CasaBlanca fans to think about. You know the ones I mean. The real classy ones. The ones dames love. Why, every screw and nut and bolt in those fans is a work of art. Anyway, I had a choice. Stay with the fans or go with her. I took the fans. After all, a kiss is just a kiss, but a CasaBlanca isn't just another pretty fan."



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PETER O. WHI

Shelf brackets *slip through grooves cut in paneling. The shelves hold lightweight objects and paperbacks*

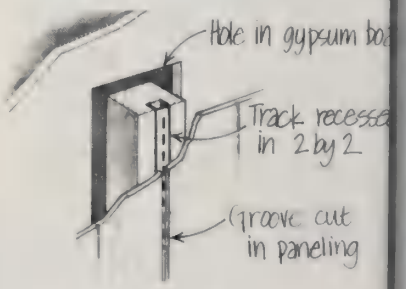
Where's the shelf track?

At first glance, Dick Barcus's shelf tem with its protruding brackets l familiar enough, but a second lool veals that something is missing— metal tracks that hold the brac They're buried in the wall behind 4 8-foot panels of ¼-inch walnut ven

Barcus started by locating the wall s He then laid the panels on the against the wall to determine w paneling grooves would not overla studs. Of these, he selected grooves a 2 feet apart and made 6-foot-long centered between the top and botton

Behind each cutout groove, he use minute epoxy to glue a 75-inch-long 2 with track recessed into a routed (Before gluing the 2 by 2's, he ali the slots in the track horizontally, s brackets would align.)

To make the paneling sit flush wit wall, Barcus cut narrow openings i gypsum board and notched the cross-braces. Contact cement bond paneling to the wall.



Oversize hole *between studs lets 2 by 2 slip through the wall*

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NORMAN A.

Sleeping platform *adds seating and storage space. Elevating the mattress above eye level makes the space look more like a living r than a bedroom. For easy knockdown, the platform is bolted together, and stairs are three separate*

Platforms for sleeping, storage, lounging

For access to storage, *panel of 1 by 4's lifts aside, exposing 4-by-4 support posts. Above, middle tread of angled stair-seats swings open on hinge*

Eliminating the need for separate pi of furniture, a well-planned platform combine storage, shelving, lounging, sleeping space in a single unit. In process, it can streamline a small r to make it seem larger, or divide a la room into separate spaces such as liv and dining areas. Relatively simple build, a platform is one way to ta furniture to your own situation.

To make a rigid surface, it's best to ¾-inch plywood or particle board a frame with supports spaced 12 to inches on center. The owners of the th examples shown here and on page used simple substructures of 2 by 4's 2 by 6's. All have drawers or doors access to hidden storage space, and are covered with carpet.

Two examples use industrial or comm cial carpet, a tightly woven, level-l floor covering often used in offices cause of its long-wearing properties ease of maintenance. It is usually m

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A car you can believe in.

29 EPA EST. **37** EST. HWY.* *The Volvo 4-door diesel sedan and wagon with manual transmission and overdrive. Use these numbers for comparisons. Actual mpg may differ depending on speed, trip length and weather. Actual highway mpg will probably be lower than EPA highway estimate. ©1982 Volvo of America Corporation. †1981 Volvo Buyer Survey. Roof rack optional.

Particle board and 2 by 4's *begin framework (below) for drawers and seating area. For a custom-built look, architect James Jennings, of Bellevue, Washington, fitted prefabricated drawer units (available at hardware and home furnishing stores) into boxes*

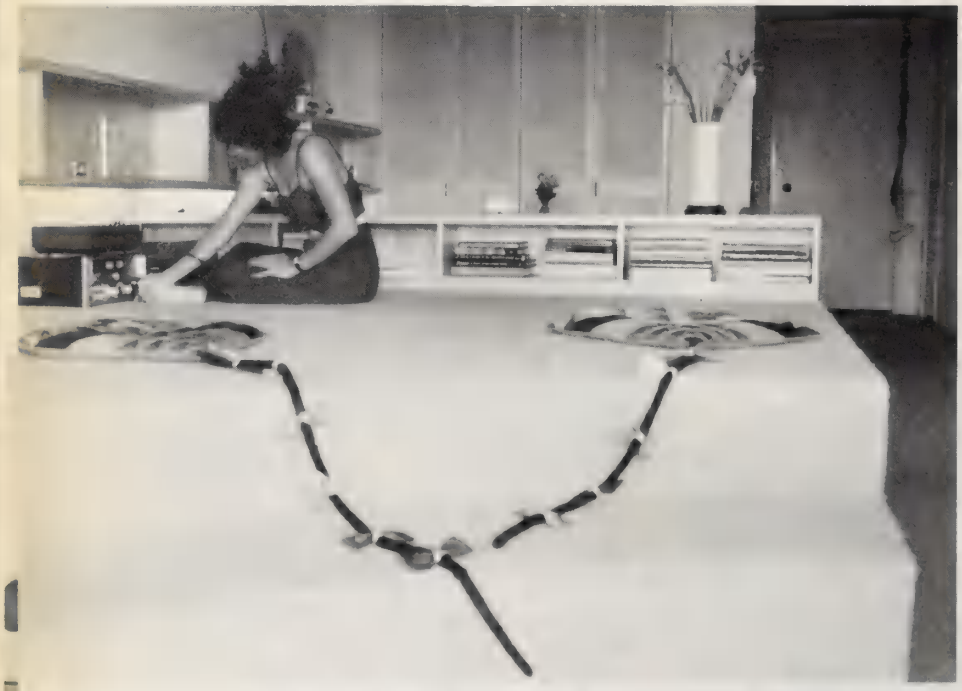
CHRISTIAN

Here are two more lounge-storage platforms

expensive than standard home carpeting such as low-pile shag (the easiest for a beginner to work with because it hides seams).

If the area to be covered is small, you might find a good buy at a carpet remnants outlet. A dealer can also advise you which carpets lend themselves to your project. To attach the carpet to the substructure, you can use contact cement, carpet tacks, staples, or adhesive ca tape. If carpeted doors are to be op regularly, you may wish to add hardw strips, which will hold tacks better plywood will.

Before installing a platform, be sure design allows adequate headroom check your building regulations conc ing any permanent structure that ra the floor level.



Concealed by carpet, *touch-latch doors open to 18-inch-high storage space*

Furnitureless living room *has 9- by 16-foot platform covered with industrial carpet. Honolulu architect Wesley Yoshikawa helped owner Sue Lin Chong create an entertainment and relaxation area separated from the dining area by a bank of cabinets*

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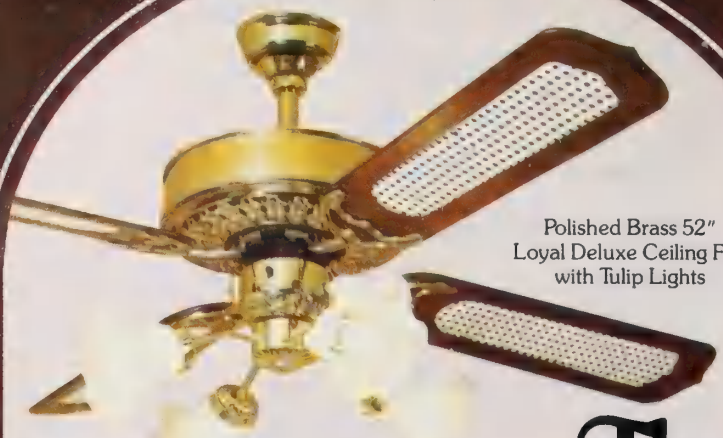

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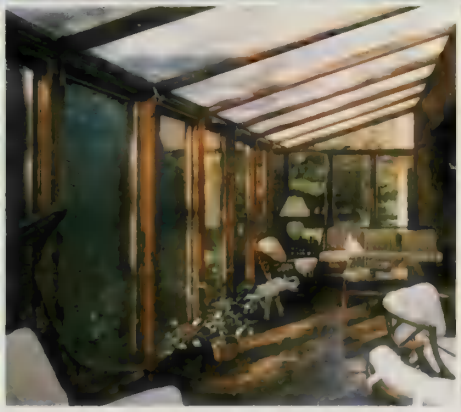
Interior porthole *looks out from shower stall across bedroom and through exterior glass to bay beyond*

Inside-out view from the shower

Overlooking Morro Bay, the lot w Pandora Nash and Gary Karner plan to build provided a panoramic van point. When architect Steven Pult San Luis Obispo, California, desig their house, he did all he could to c the dramatic bay view to almost ev room—even the master bath. W bathers lather up in its shower, they g far beyond the confines of a 3- by 3- stall. A porthole-like window set into tiled wall frames a view across a ma bedroom to the water.

For the shower porthole, Pults use 36-inch-diameter circle of clear, t pered glass mounted in an anodized minum frame; silicone caulk seals joints. Besides the scenic view, the p hole lets some daylight into the shower

A Pella Sunroom.
It's the special addition.



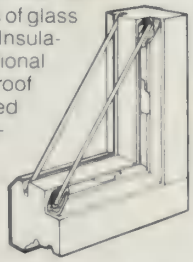
use instead of just adding more floor e, you're adding the drama of space all nd. The feeling of openness plus the dance of light in a Pella Sunroom will e a substantial difference in your home n the way you live. Any activity — or inac- — will take on a new dimension in a room seems to ignore ordinary dimensions.

aps best of all, the Pella Sunroom will go ectly with your home. The design is modu- it can be just about any shape or size short, on a deck, on a balcony, over the And you can choose from Pella Case- Double-Hung, Awning and Fixed win- plus two styles of Pella Sliding Glass s.

up all the quality features, the versatility he dramatic feeling of a Pella Sunroom — agree it's a very special addition.

Pella Sunroom isn't a remake of an or- ry greenhouse. It's designed and engineered of solid wood construction to be a substantial, energy-efficient addition to your home. And it's virtually maintenance-free. The exterior is covered with an all-weather aluminum cladding finished in White or Dark Brown that resists fading, chipping, blistering and peeling. Inside, all you see is the beauty of real wood, which, besides offering hoice of stained or painted finish, has ex- nt insulating properties as well.

's Double Glass Insulation System for round comfort. Air space is one of nature's best insulators, and Pella offers more. In vertical windows, a full 13/16" air space between two panes of glass in the Pella Double Glass Insulation System offers exceptional performance. Sunroom roof panels and triangular fixed windows feature energy-efficient insulating glass.



The hidden Rolscreen®. A screen that works like a window shade. When needed, it can be pulled down and firmly latched or rolled back up providing a clear view and 20% more light. The Rolscreen® stores in a concealed housing at the top of Pella Clad Casement windows, and is an option to the standard flat screen set in a bronze-tone frame.

Pella Slimshade® provides convenient, fingertip control of light and privacy. All it takes is a simple turn of a dial or crank to adjust the Oyster White blinds to shade your Sunroom, softly diffuse the light, or drench the Sunroom with sunshine. And, when closed, they offer considerable heat-retaining benefits as well. Slimshade® is available for Sunroom vertical rectangular windows, Sunroof panels, and the Contemporary French Sliding Glass Door.

The Contemporary French Sliding Glass Door offers exceptional energy efficiency with all the charm of a French-style door. The design takes full advantage of the natural insulating qualities of wood, effectively controlling conduction and condensation. It also offers the Pella Double Glass Insulation System, Slimshade® blinds installed between the panes of glass, Solarcool® Bronze Glass, a special lock that will secure the door slightly open for ventilation, and a self-closing screen.

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It's a powerful room-filling fog that goes back where they live to kill roaches, fleas and other bugs dead. By the thousands.

Johnson wax

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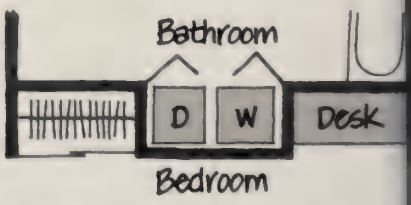
DAVID F

On bathroom side, *bifold doors enclose compact but handy laundry center (abo On bedroom side, walled-in closet area papered with whimsical underwater gra*

Squeezing in a laundry center

By borrowing a little closet space f their 4-year-old son's bedroom, Ho lulu interior designer John Adams his wife, Merrily, were able to ad handy washer-dryer closet to their c trally located bathroom. They sim walled off the bedroom-facing mid section of the closet, and framed opening in the wall of the adjoin bathroom. Nearby plumbing made ho ups relatively easy. Folding louve doors allow the Adamses to close laundry clutter.



Turned-around closet *leaves space for des and ample closet for young son's clothes*

SUNS

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Omega.
The legend continues.

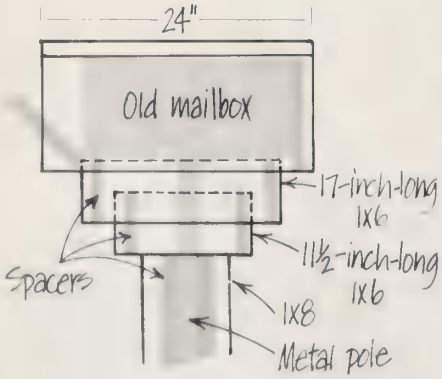
Remodeled mailbox *has slot cut along top edge so signal flag can pivot*

Streetside sculpture. It's a mailbox

A tiered shell of redwood transformed an ordinary metal mailbox into a piece of streetside sculpture. The old box was mounted to a metal pole, which provides strong support for its new wooden skin.

Masking the pole are 1 by 8's spaced 1½ inches apart, which stop just short of the ground. Below the box's base are two tiers of 1 by 6's with 1-by-6 spacers set ¾ inch in from the ends. Two 24-inch-long pieces of 1 by 12 cover the mailbox's sides. Its top, back, and front are cut to fit from 1 by 12's.

This design was by landscape architect Michael Theilacker of Kawasaki and Theilacker, San Diego. □



Redwood cover *stops at bottom lip of metal mailbox so its door can open. Countersunk finishing nails hold butt joints*

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The little black dress.

The Wassily chair.

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The Classic American Silver®

Shown: New American Federal. For pattern brochure, write Dept. SU, Reed & Barton, Taunton, Mass. 02780

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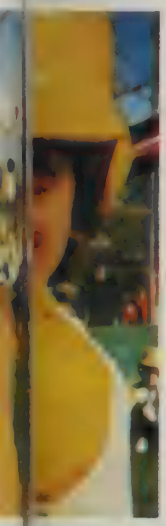

*Sun ™ Reproduced from original unretouched photographs. *See your dealer for Smile Insurance replacement film details

NORMAN A. P

Wider and brighter kitchen *has white cabinets and tiled countertops. Breakfast area beyond opens to kitchen, where before (right) a wall with arched door divided the space*

One big bright room now instead of three cramped ones

Popped-out window *(below, right) in north-facing wall replaced small window in old recess (left). New window extends below level of countertop*

Three rooms became one in this rem eled kitchen that runs the breadth o 54-year-old Berkeley house. The w separating the old laundry roo kitchen, and breakfast area were moved for a single spacious room; big windows and a new lighting scheme w added for brightness. A look at the fore and after photographs can help y appreciate these improvements.

Other than removing the interior wa the biggest change was a 1½-by 12-fo addition to the back wall. In the n wall, a 6-foot-wide pop-out with a thre sided window adds generous coun space—and a place for house plants behind the double sink.

An 18-inch-deep soffit running arou

SUNS

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It adds up to a long stretch of road. A lot of excitement. And Ford EXP.

And just in case you're ready to take on a little more, we've got that too. And we've got it three ways.

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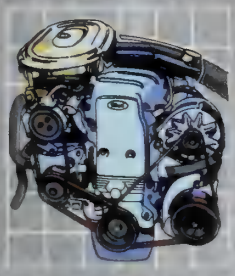

EXP now offers an increased compression CVH engine for higher output. A 1.6 liter powerplant that delivers 14% more horsepower punch than the base engine. It's optional on the four-speed stick and standard on automatics.

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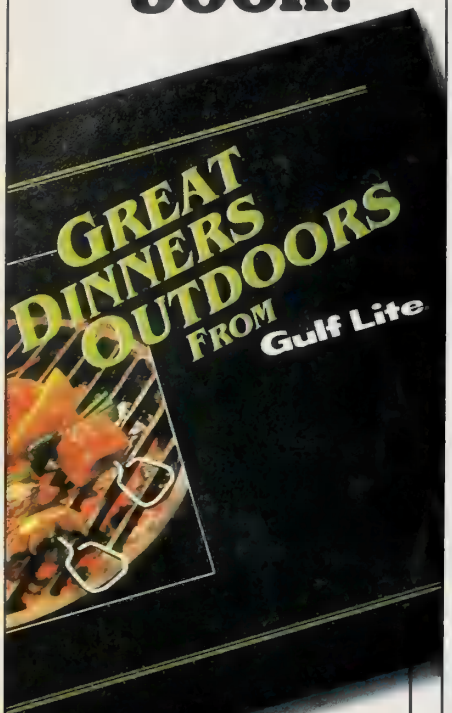
Next time you barbecue, go by the book.



Here's an offer you can really dig into. The Gulf Lite® Barbecue Cookbook. It's not only filled with enough different, delicious, and economical recipes to fill an entire summer, but the Better Homes and Gardens Seal of Approval guarantees you the most savory results every time.

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Cooking out is in.

Gulf Lite®
The "one-match" starter.

Deep soffit *(above) turns corner from rejuvenated kitchen into laundry area. Shallow pantry adds storage. Mirror over cooktop brightens what used to be a blank, dreary wall (right)*

the kitchen's perimeter conceals downlighting canisters and a 4-foot-long fluorescent fixture over the sink. By lowering the high ceiling over the work area in the kitchen and laundry areas, the soffit defines them and makes them more intimate. Gray-painted molding above the soffit continues into the breakfast area, helping to unify the entire space.

Tubular handles and concealed hinges keep the cabinet faces simple and unobtrusive. The room-dividing cabinet between the kitchen and breakfast area glass doors on both sides to continue open look.

Architect for the remodel was H Morimoto of Atelier Architects, Eme ville, California.

Tall windows *add openness to new breakfast area. Glass-doored corner cabinet echoes the see-through cabinet over counter island, between this area and the kitchen*

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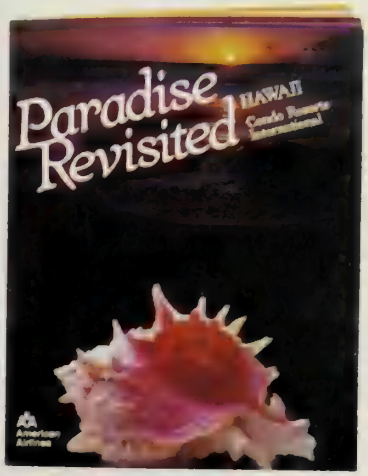

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Sentry Hardware Corporation, Cleveland, Ohio 44113.

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SENTRY Hardware

Upholstered seat pad *gives worn-out caned chair a second life*

Instead of recaning . . . a new padded seat

Recaning a chair is a complex and tim consuming job that usually requires t services of a professional. Reweaving t bottom panel of a chair like those abo would cost from $55 to $95, or 50 cen to $1 per perimeter hole.

As an alternative, you could replace t cane seat with cloth-covered plywood about an hour for $10.

You'll need a piece of paper to make pattern, a ½-inch plywood panel the si of the seat, a 1-inch foam pad the san size, a 3-inch-wide strip of dacron ba ting or felt the circumference of t seats, a pair of 1-inch metal L-bracke and screws, and a square piece of sturd upholstery fabric 2½ inches larger tha the seat bottom. You'll also need sc sors, a staple gun, a saber saw or copin saw, a screwdriver, and about 3 doze pushpins.

Remove the old caning, then make pattern by tracing the shape of the se

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onto the paper. Depending on the fram condition and the desired look, cut t plywood panel flush with the fram edge or inset slightly to reveal the fran Cut the foam pad to match the plywoo then cut the fabric, allowing a 2½-in border around the plywood.

Then follow the steps pictured and d scribed below.

NORMAN A. PL

Cut wood, *foam pad, and fabric from paper pattern. Wrapping plywood panel with batting helps soften its sharp edge*

Kneeling *on the back of the plywood compresses the foam so the fabric can be drawn around tightly. Use pushpins to position fabric before final stapling of turned-under fabric*

Screw *metal L-brackets to plywood and chair sides. Worn or soiled fabric can be easily removed and replaced*

Classics. Always fresh. American Colonial spoon in stainless. Pipkin & plate in pewter & brass.
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You know us for our fine stainless. Discover us for our beautiful giftware. Available at fine stores everywhere.

A window wouldn't work . . . so they removed the roof

Soft overhead light *is diffused by translucent panels and trees outside. Small panel sections are set in wall above louvered windows*

NORMAN A. PLA

Fences don't always make good neig bors, especially when they are unattra tive and tall enough to block light. T fence outside Jeanne and Gordon Fros north-facing bathroom darkened the terior of the small room, so they ask San Diego architect Peter Rodi to fi a way to brighten it. His solution w startling: he literally removed the roo

Now, instead of the shake roof and l interior ceiling, a translucent shed ro covers the bath, which is as bright as greenhouse. Covering the room a ribbed, double-wall acrylic panels t diffuse outside light and provide so insulation. The lightweight panels mou to overhead 4-by-6 beams with spec clips that allow for the expansion a contraction that comes with temperat changes.

The view of the offending fence blocked by louvered shutters. A fan the peak of the room exhausts hot steamy air; windows behind the shutt open to let cool air flow in to replace i

Masking seams *between panels are mahogany 2 by 4's running from ridge. Special caps plug open ends of panels*

SUN

This bag of ALAMO® BRAND has as much meat protein as 10 lbs. of sirloin. Woof!

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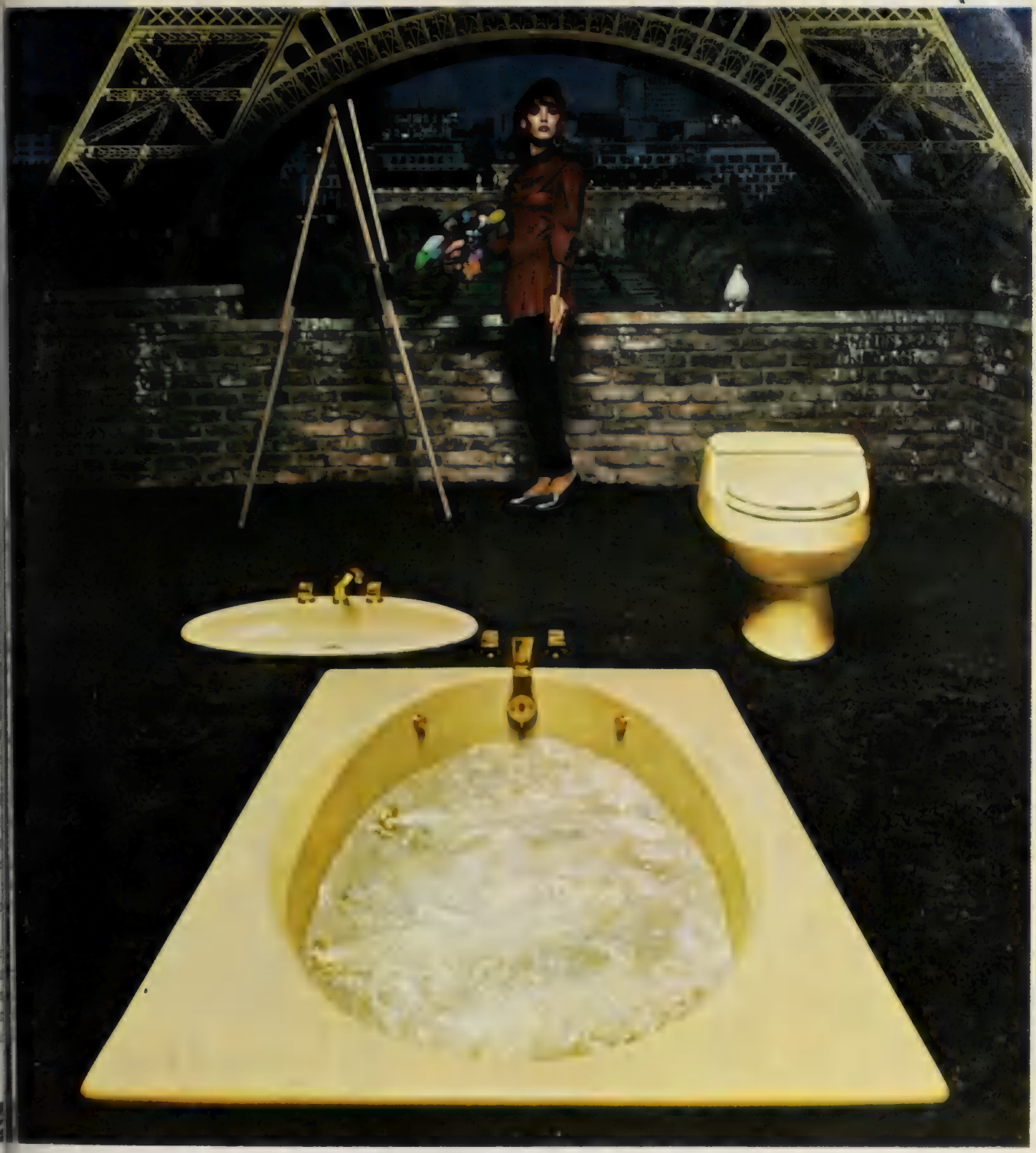

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NORMAN A. PLA

Wall hanging *hides air conditioner when it's off. When it's on, finishing nails on back of fabric's frame rest on bottom piece of 1-by-4 box that surrounds the unit*

Hiding the air conditioner

Despite its utility, a wall-mounted ai conditioner isn't an attractive addition to a room. Tucson architect Charles Alban ese wanted to use one as a backup for an evaporative cooler, but since it would be used infrequently, he didn't want it al ways on view.

During the remodeling of his house, he framed a small air conditioner high into a wall, a position that allows good distribution of cool air. He surrounded the unit with a frame of 1 by 4's which—when the unit is turned off—supports a fabric wall hanging. □

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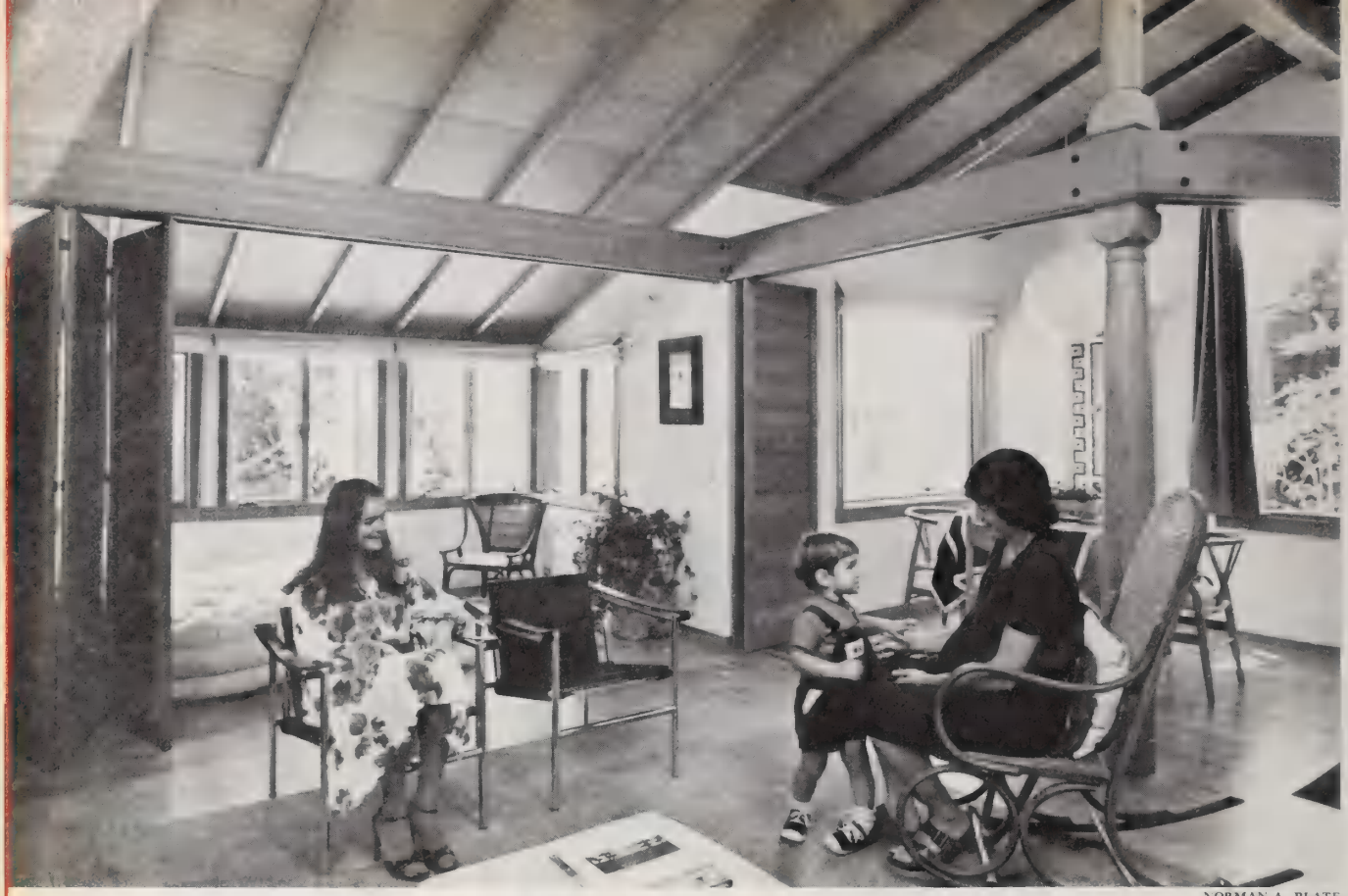

NORMAN A. PLATE

Panels *open to let living room borrow space and light from sleeping and dining alcoves; high ceiling makes room seem larger*

Column and beams *near entry mark corner of dining alcove; kitchen pass-through is only a few steps away. Fireplace is all that remains from prefire house*

Tightly organized *plan shows one space can divide into three separate areas*

"We wanted the rebuilt house to look as though it had always been there . . . and be as spacious as possible"

When fire destroyed the original above-garage cottage on this site, it left only the fireplace and foundation standing. In rebuilding, architects-owners Ann Hughes and Howard Menashe visually expanded the 520-square-foot interior with folding partitions, exposed beams and rafters, a variety of ceiling heights, and low windows.

"We wanted the rebuilt house to look as though it had always been there, and at the same time we wanted the interior to be as spacious as possible," say the owners. They found ready inspiration in the

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RANDALL FLEMI

Tiny cottage *fits into sloping lot, on top of and behind garage. At the back, windowed cupola sits over entry*

THOMAS A. PLATE

Inside, *the cupola acts as light well; its windows open for ventilation. Three-part rafters sandwich tracks for lighting*

work of Bernard Maybeck, the early 20th-century California architect whose houses are sprinkled throughout their Berkeley neighborhood.

The main living space is focused on the fireplace. Dining and sleeping areas function as alcoves off it and are separated from it only by fir beams containing tracks for the louvered wooden screens. The beams, which meet at a turned wooden column opposite the front door, mark the edges of the living area without fully enclosing it.

Only the raised bathroom and kitchen are separated from the living area by a wall, but even here the wall seems less confining because it is perforated by a short flight of steps and a shoulder-height kitchen pass-through. □

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e brilliant, metallic side of the Cryotherm™ Treated Blind by Levolor reduces solar heat in 12% more than regular blinds. These dazzling blinds reverse to a rich matte finish that lps keep rooms warm on colder days. Designers, architects, everyone looking for a beautiful y to save energy, specify Cryotherm Treated Blinds by Levolor. Send for more details in e Levolor Energy Booklet." Levolor Lorentzen, Inc., 1280 Wall St. West, Lyndhurst, N.J.07071. r dealer name in your area call 800-447-4700 (in Illinois 800-322-4400).

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DARROW M. WATT

Portable lap office *goes anywhere. Opened flat (left), it gives a solid writing surface. Pockets provide plenty of room for paper and pencils. When closed (above), it's a compact carrying case*

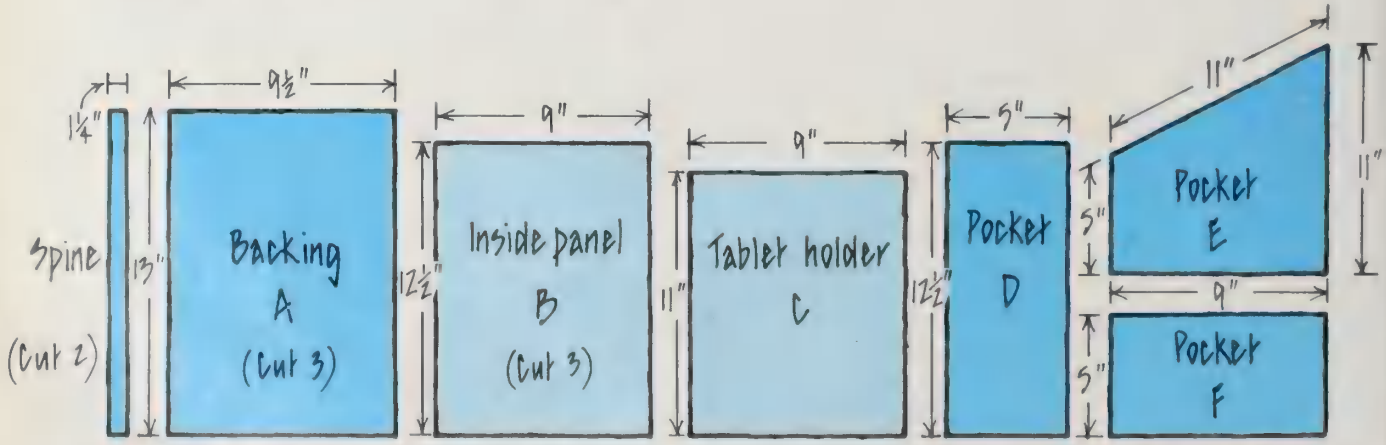
Carry-around lap office ... paper, envelopes, pencils

Folding into a neat package, this port ble office lets you take paperwork wit you. Its three parts hold writing pape envelopes, and pencils and pens, whi its sturdy cardboard backing provides firm writing surface. You can make on in a day.

Materials (total cost is about $20). A an art store, buy a 32- by 40-inch shee of 3-ply mounting board for the cove and one of 2-ply illustration board fo inside panels and pockets. You'll als need 1 yard of 45-inch-wide medium weight fabric and ½ yard of 45-inch wide lightweight fabric, 1 yard of 1-inch wide grosgrain ribbon and a pair o D-rings for tie, scissors and a mat knife needle and thread, white glue and a wide brush, spray adhesive, and masking tape

Pattern. With a mat knife, cut cardboard to sizes in drawing.

From the medium-weight fabric, cut one piece 17 by 36 inches for outside cover, two pieces each 3½ by 13 inches to



Cut heavy mounting board *for backing, spine, and pockets. Cut inside panels B and C from illustration board. Cover pieces in dark tone with medium-weight fabric, other pieces in lighter fabric. Cut fabric larger than sizes shown*

Basket-shaped filter vs. The Cone.

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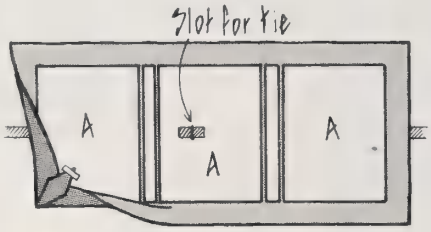
cover spine inside, and three pieces each 1½ inches larger all around than pocket pieces D, E, and F. From the lightweight fabric, cut three pieces of B and one of C, each 1 inch larger all around than cardboard pieces.

Early assembly. For the backing, lay the large piece of fabric wrong side up on a flat surface covered with waxed paper. Place the three cardboard rectangles A and two spine pieces on top, spaced 2 inches from fabric edges and ¼ inch apart. Draw pencil lines around board pieces to mark their places.

Brush a thin coat of white glue onto one side of each cardboard piece, then position pieces glue side down inside pencil lines on fabric. To keep boards from curling, weight with heavy books and allow to dry, about 2 hours.

Fold and glue excess fabric on top and bottom edges to wrong side of cardboard; glue down side edges. (To make neat corners, pinch fabric along the bias at corners, clipping to corner edge if necessary, then fold and glue corners flat to the inside. Tape to hold until dry.)

To hold ribbon strap in place, cut a 1-inch vertical slot through the middle cover piece A, positioned as indicated in the drawing. Fold ribbon in half a with closed scissor tips push folded e through slot from outside to inside abo 1 inch. Cut inside fold and lay ends fl then glue and tape them to cardboar Cut 3 inches from each loose end of ri bon to make two 3-inch pen holde across the spines (inside).



Glue *cardboard pieces to fabric, then turn corners as shown; glue and tape till dry*

To cover the spines inside, turn top a bottom edges of cover fabric strips inch to wrong sides; press. Center a glue each one, right side up, over spine.

Lining. With spray adhesive (it's le likely to bleed through thinner fabr than white glue), glue three inside pan pieces B to lining fabric. Fold and gl edges of fabric to wrong side of car board, finishing corners as before.

Center tablet holder cardboard piece on wrong side of lining fabric. Fold e cess fabric at top to back side of car board and glue in place. Lay back si of tablet holder piece C on front side, one inside panel piece B, bottom edges cardboard together. To hold B and together, fold excess fabric around side and bottom of C to back of piece B; cli bottom corners of fabric and glue i place.

Pockets. Center pocket pieces D, E, an F on wrong side of cover fabric. Trac around edges of each piece with penc to mark cardboard position. Brush a thi coat of white glue on the wrong side o the cardboard pieces, then press them glue side down, onto wrong side of cove fabric.

On pocket piece D, fold under ½-inc fabric edge along one long side and glu to cardboard back. Place D on one fab ric-covered inside panel piece B, match ing left, top, and bottom cardboar edges. Clip fabric corners, then fold an glue top, left, and bottom edges of fabri from D to back side of B.

On pockets E and F, fold and glue top edges of fabric to back of cardboard. Place E, right side up, on top of last inside panel piece B, matching bottom and side edges. Clip fabric corners, then fold and glue side and bottom edges of fabric from E to back of lining piece B.

Add pocket F on top of E (bottom and side edges together), and glue excess fabric to back of B as above.

Final touches. For pen holders, position ribbon pieces over inside hinges as shown in large photograph on page 162; glue ends in place.

Brush white glue liberally on backs of three inside panel sections, then center and press them to inside of folder, each section positioned as in same photograph.

Secure edges with masking tape, weight with books, and allow glue to dry overnight. To finish, loop end of one ribbon through D rings and stitch. □

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Rafters and ridge beams *are revealed beneath double-sloping skylight in architect Lewis diSibio's remodeled house in Oakland*

Light bounces *off wall above plant trough in remodeled dining room. Architect: John Duvivier, Palo Alto, California*

NORMAN A. PLAT

Ceilings peel away to bring in daylight

Beneath the veneer of gypsum board that covers most ceilings is the structural reality of joists and rafters. These three skylights reveal existing rafters. No major structural changes were necessary—only removing the gypsum board below and the sheathing and shingles above the rafters. The result is a dramatic way to introduce natural light.

In these examples, the rafters' regular 24-inch spacing helps make them less noticeable. Adding blocking between the rafters gives a finished, rectangular frame to the space below the skylight material. Made of glass or acrylic, these flat skylights were added to the roof like a giant shingle, slipping under the side courses of shingles and overlapping at the bottom. The top edge either fits under a layer of shingles or is capped with narrow ridge flashing. □

Trailing plants and balcony *enjoy light through rafters in bedroom addition designed by San Diego architect Peter Rodi for Pam and Baldwin Burch*

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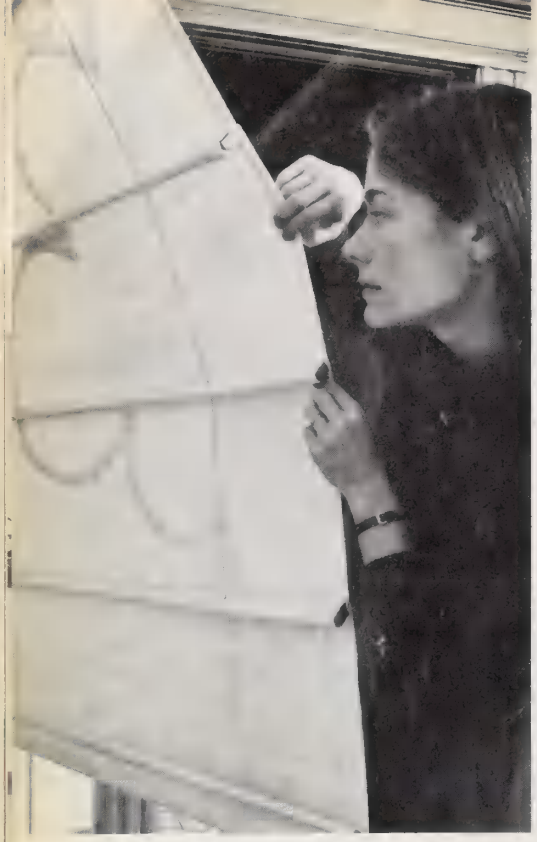
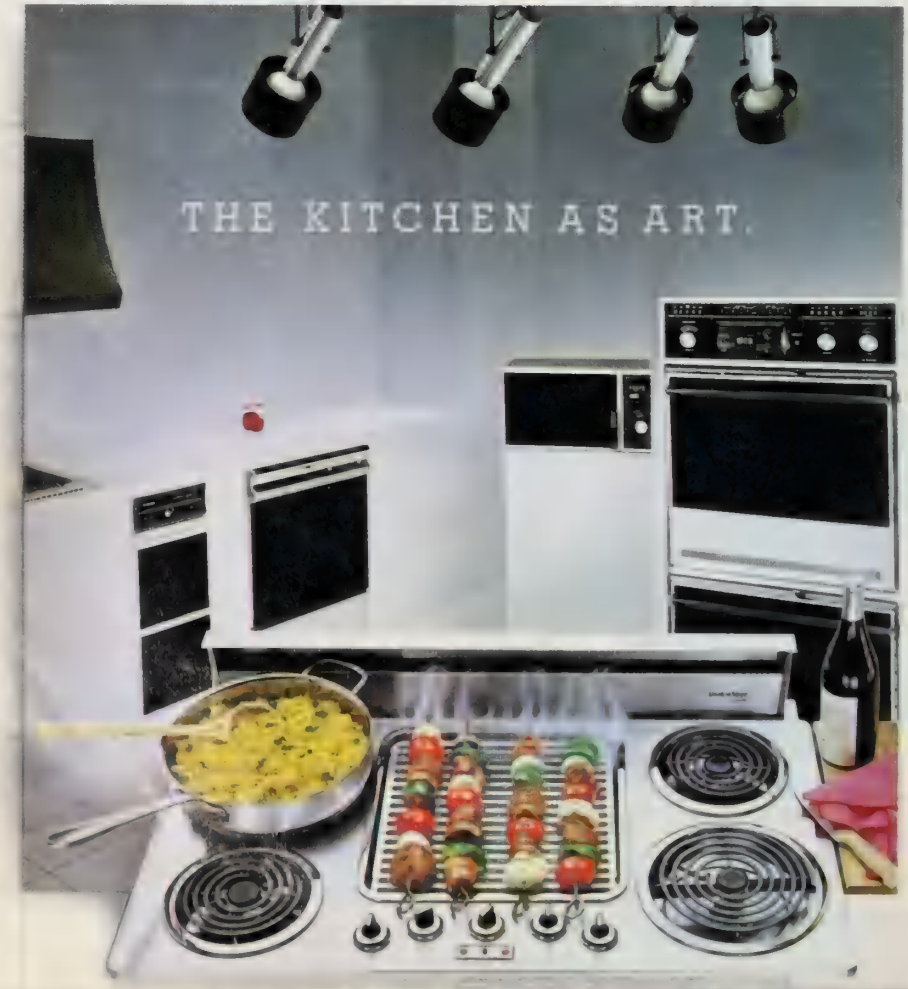


Wood slats *inside fabric rod pockets make shades fold neatly. Shade cord runs through holes drilled in the five slats*

DAVID STUBB

Cumulus cloud *cut-outs machine appliquéd to cotton Roman shades visually tie three wood-framed windows in a two-year-old's bedroom. Panels fold and stack neatly at top of the window*



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Golden clouds for a 2-year-old's bedroom . . . appliquéd on wood-slat Roman shades

Gold-outlined clouds turn three cotton Roman shades into a simplified triptych in two-year-old Allison's room. Her mother, Pamela Siefert of Oakland, designed the shades to echo a weather mural on the bedroom's opposite wall.

To make a similar Roman shade, you'll need medium-weight fabric for the shade and for the cloud outline, ⅜- by 1-inch wood slats, Roman shade cord, 3 eye screws, a small awning cleat, and a ⅜-inch-diameter solid metal rod 1 inch shorter than the finished shade width. To mount and hang the shade, you'll need a length of 1 by 2, flat-headed tacks or staples, and screws.

To figure your fabric needs, measure the window and the part of the frame you want to cover, then add 3 inches to the width for 1½-inch side hems, 2 inches to the top for mounting to the 1 by 2, about 5 inches to the bottom for a double hem, and 2½ inches to the length for each horizontal rod pocket (the ones shown are 10 inches apart).

First machine-stitch the side hems, then the bottom hem. Zigzag-stitch the top edge to keep it from unraveling. Disregarding the top 2 inches of fabric, measure, fold, and pin rod pockets so they are evenly spaced. Machine-stitch.

Draw the cloud design or similar pattern on a wide piece of paper, lay the paper on top of contrasting fabric, and cut along the outline. Cut again 1½ inches inside that line. Pin this fabric outline to the shade and stitch it on with a narrow zigzag stitch. (Avoid the rod pockets by lifting the presser foot and sliding the pockets under.)

Cut the 1-inch slats ¼ inch shorter than the shade width and slide them into the pockets. Mark each rod pocket at points ⅕ of the shade width in from each side (distance between cords should be no more than 30 inches). Drill small holes through fabric and slats.

Cut the 1-by-2 mounting board ¼ inch shorter than the shade width, and fold the top of the shade over the board so that it hangs the proper length. Tack or staple fabric to the back of the board. Insert two eye screws on the bottom of the mounting board so that they align with the vertical row of holes. Insert one more to the far left or right.

Cut two lengths of cord each at least 2½ times the length of the shade. Knot each cord at the bottom, then thread it up through the holes and eye screws and across the top through the eye screw at the far corner.

Screw the board to the top window frame and mount the awning cleat to the appropriate side of the window. Insert the metal rod into the hem and whipstitch ends closed. With the shade fully unfurled, cut cords each to the same length and knot them at the ends and just below the eye screw at the top edge. Pull to arrange folds carefully; leave folded for several days, or iron to set. □

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Ash countertop *opens to reveal lights and mirror, closes to conceal clutter*

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Routed grooves along the top edge of the front panel serve as finger pulls. Brass rods in holes drilled from the adjacent cabinet side walls into the front panel allow it to pivot forward. Sliding brass arms hold it level.

The lid (¾-inch ash to match flanking cabinets) pivots on two threaded ⅜- by 2-inch pipes. These are inserted through the cabinet walls into the side of the fixtures; nuts inside and outside the fixtures lock pipes in place. Wiring for the lights runs through the pipes.

Design was by Al Klyce, Mill Valley, California. □

Rubber stops *bump bottom of light fixture to hold lid at angle. When lid is closed, fixture rests on horizontal stop*

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GREG DELORY

ıple fir rack *holds 13- by 18-inch stic bins. Side vents circulate air*

Vegetable bins in the old broom closet

converted broom closet next to an out-e wall houses this six-bin vegetable rage rack. Owners Judy and Lawrence ınklin of Orinda, California, also store sh fruit, potatoes, garlic, onions, and ins in the plastic bins. The closet has) openings to the shaded outside of ir house.

e sturdy bins are 7-inch-deep busing skets bought at a restaurant supply re. They slide on ¾-inch-wide grooves doed in 1½- by 2-inch side rails. aced 9½ inches apart, the 22-inch-ıg rails mount to 2-by-2 posts to make o ladder-like sides. Four crosspieces ıde of 1 by 2's brace the top and bot-n. To prevent racking, woodscrews ld the right side of the 65-inch-high ıme to the plywood wall of the closet.

:sign: architect Lucia Bogatay of San ancisco. □

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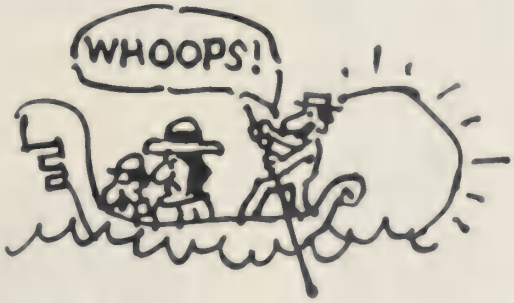

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Ranging from $2,500 to $8,000, the system includes a dish, an amplifier (the nosecone suspended over the center of the dish), and a receiver box that hooks up to your television. Prices depend on the size and quality of the dish, type of mount, and quality of the amplifier and receiver.

The main factor that affects the price is where you live—and what you're buying the antenna to watch. Satellite signals are weakest on the perimeters of the U.S.; you'd need a bigger dish or stronger amplifier in Los Angeles than you'd need in Denver. A dish mount that moves to track different satellites costs more than a fixed mount.

Satellites in stationary orbit over North America offer up to 76 channels of programming. While these "earth stations" can be legally used to pick up certain signals, there are transmissions that *can't* be picked up legally without permission of the broadcaster (pay TV or movie channels, for example).

You can find the equipment and more information at larger video stores.

PETER O. WHITELEY

A summer camp that teaches building skills

Acquiring the knowledge, skills, and self-confidence to build or contract your own home might seem an insurmountable task, but for more than 600 men and women, this once impossible idea is now closer to a reality.

Over the last three years, they all have participated in a special Summer Residence Program run by Berkeley's Owner Builder Center. The hands-on workshop seeks to demystify house building. Part of the time is spent in the classroom, but about 60 percent of students' time is spent actually building a house: forming foundations, framing, wiring, plumbing, building with masonry (shown at right), and finishing work (hanging wallboard, at left).

The two- and three-week courses are held in two California locations: Grass Valley and Berkeley. Students live and eat at school campuses. The sessions run from mid-June until early September; enrollment is limited. For more information, call (800) 547-5995.

GLENN CHRISTIANSEN

BILL ROSS

See-through safety barriers

An open deck rail can be nonconfining and attractive, but common sense and building codes call for safety barriers—especially necessary when children are around.

To preserve the wooded view, San Jose architect Lory Ice specified tempered safety plate glass panels for Jim and Susan Ahren's deck in Pleasanton, California (above).

In the spirit of Mission Bay's beach community, San Diego architect Rob Wellington Quigley fitted Judy and Burt Sayer's decks with surprisingly strong volleyball nets (top right).

Fishing netting found a new use as an extra guard at Mr. and Mrs. Henry W. Dean's Seattle house. Architect: Ralph Anderson.

DON NORMARK

Foam tape holds screen in place

To avoid cluttering his windows with the usual clips when screens are down, Portland architect Robert Cowman wedges screens in place by wrapping the frame perimeters with adhesive-backed weatherstripping tape like you see below. The 3/16- by 3/8-inch foam tape compacts enough to hold the screens tightly within the casing without marring the wood.

DAVID STUBBS

Natural light for dressing table

The sun provides the light for this dressing table mirror in Tucson, designed by architect Judith Chafee. The mirror slides on tracks over a southeast-facing window to catch just the right amount of natural light. Vertical blinds on the window allow further adjustment of the daylight.

They looked up and discovered storage space

If storage space is a problem in your house, the solution might be just over-head: look upwards for possible places to build shelves or hang cabinets.

But remember that borrowing from a room's overhead volume will probably make the space seem smaller. This can sometimes be compensated for by making the new storage blend with existing units (as with the kitchen at right or by adding extra light in strategic spots as with the hall bookshelves below).

With any high storage, there's a risk of objects falling during an earthquake. Lips on shelves, locking cupboard catches, or even retaining wires in front of shelves can help hold things in place.

For storage too high to reach plan a place nearby to store a stepladder. □

Kitchen wrap-around. *Santa Monica architects Wade Killifer and Barbara Flammang use the corner where wall meets ceiling for extra kitchen storage*

GLENN CHRISTIANSEN

Hallway. *San Francisco architect Howard Schopman found enough overhead space in his hall for 24 linear feet of book storage. Shelves rest on 1 by 4's that replace doortop molding*

NORMAN A. PH

DARROW M. WATT

Kitchen. *Dead space over pass-through (above) now holds a bank of high cabinets and a glass rack*

ack porch. *Door moldings and wedges support plywood torage shelf. Owner: Richard Bruce, Anchorage*

NANCY L. SIMMERMAN

DON NORMARK

ROB SUPER

Child's room. *Platform over closet holds basketsful of seldom-used clothes and toys. Architect was Glenn Lym, Berkeley, for homeowners Paul and Leslie Tibbetts*

Between kitchen *and dining area, spine of ceiling-mounted cabinets adds storage, divides the rooms. Architect: Antoine Predock, Albuquerque*

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NORMAN A. PL

Removable panels *have shadecloth to cut sunlight but keep openness*

Panels for more or less sun

A western exposure has good and ba points. In the winter, the sun's light an heat can penetrate deep into a house t help warm living spaces. In the summe the same heat buildup can be annoying.

To help control this problem, architec Carl Strona of Olsen/Strona Architect built a trellis above a back-yard deck c a San Diego house. He suspended a gri of lightweight, removable panels to filte the amount of sunlight reaching a west facing family room.

Built of kiln-dried redwood 1 by 2's, eac panel measures 30 by 48 inches and ha triangles of wood bracing the corners Stapled to the top of each panel is 7 percent greenhouse shadecloth (availabl at nursery supply stores).

Panels hang from eye screws and L hooks. The eyes are in the top of eac panel above the corners. The hook screw into the bottom of 4-by-6 joist spaced 30 inches apart above double 2-by-8 beams. Precise location of eye and hooks makes it easy to slip the panels in and out of position.

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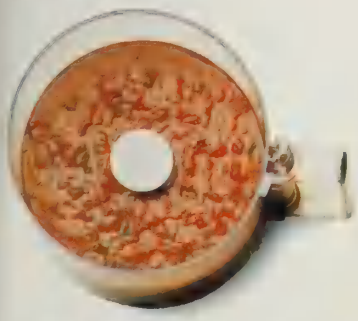
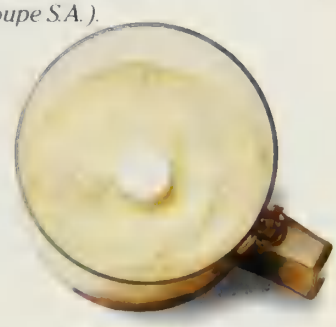


☐ Make sauce

☐ Make pasta



☐ Grate cheese

☐ Make salad

☐ Knead dough

☐ Chop meat

☐ Make soup

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DARROW M. W

On stairwell side, *you pass this bank of shelves, all see-through. On music room side (below), higher one-way-only shelves provide five additional niches*

Two-way display in stairwell wall

A two-way display case puts a collection of miniature horses on view from two rooms in this Woodland Hills, California, house.

Architect Hayahiko Takase of Los Angeles designed the unit to span a 3- by 4-foot wall opening between a stairwell and a music room. Lower shelves are 12 inches deep and are open to both rooms, protruding slightly on the stairwell side. The top three tiers are narrower and butt against the music room wall.

Although the unit is nailed to wall studs on both ends, it appears freestanding from the music room side. White plastic laminate covers the plywood core. □

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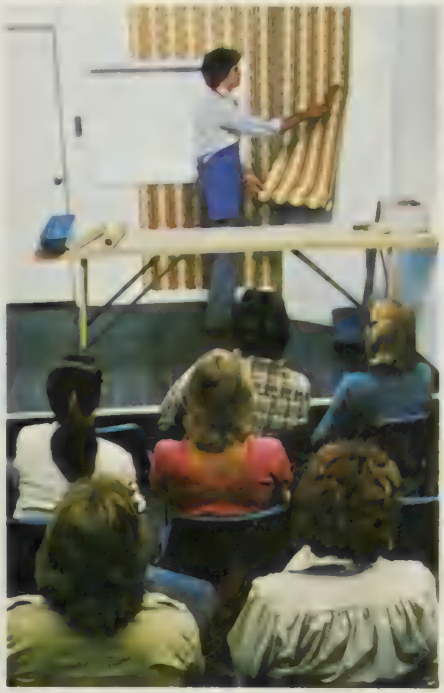

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JOSEPHINE COATSWORTH

High and low decks *link halves of house; glass-roofed shaft admits light, circulates heat. All windows are double-glazed*

Shingle farmhouse is slightly solar

Standing in an apple orchard in Sebastopol, California, this little farmhouse looks as if it's been sliced open to reveal its core, a two-story shaft that distributes warmth and light from the sun and heat from a wood stove.

The glass-topped shaft faces due south, collecting some solar radiation. The surrounding second-story balcony shades the downstairs windows when the sun is high in summer, but allows light and heat in during the winter months.

In the summer, small windows high on the north side act as release hatches for rising hot air, creating a cooling draft.

Inside, the L-shaped house is open horizontally and vertically: a bathroom and pantry can be shut off downstairs, but otherwise only a few support posts interrupt the kitchen, dining room, living room, and den. Upstairs, an open bridge joins the bedrooms and a bath.

The house is fitted with minimum requirement electric heaters, but an efficient, airtight, wood-burning stove facing the shaft produces ample heat even on the coldest nights.

Designer: Mark Hajjar, Richmond, California. Owner-builders: Stanley and Susan DeVoto. □

Centrally located wood stove *faces seating area at bottom of circulation shaft. Flue rises past upstairs bridge that joins two bedrooms*

Sunset's Kitchen Cabinet®

Built-in options make some recipes naturally more versatile than others. For example, our crispy oven-fried chicken is equally good served hot for an informal gathering or cold for a Memorial Day picnic. The egg and Swiss cheese salad makes a high-pro tein main dish or a fine sandwich fil ing. And depending on the amount meat you use, you can serve the ha pastries as a light entrée or first course For other meals this month, there a

Layer ham and tomato slices on pastry, then spread evenly with cheese topping

Hot Ham and Cheese Pastry Squares

Bake the flat pastry base ahead, then add toppings just before serving.

- Pastry for a 1-crust 9-inch pie
- 1 egg yolk
- ½ cup sour cream
- ½ cup (2 oz.) shredded Cheddar cheese
- 1 tablespoon toasted instant minced onion
- ¼ teaspoon caraway seed
- ¼ to ½ pound thinly sliced cooked ham
- 1 large tomato, thinly sliced

Prepare pastry using a recipe or a mix. Roll out dough on an 18-inch-long piece of waxed paper to make a straight-edged 9- by 12-inch rectangle. Invert pastry, using paper a support, onto an ungreased bakin sheet (about 12- by 15-inch size). Pee off paper. Prick pastry all over with fork. Bake in a 350° oven unt golden, about 10 minutes; let cool.

Stir together the egg yolk, sour cream Cheddar cheese, onion, and caraway Cover crust with ham (use ¼ lb. fo appetizer, ½ lb. for entrée) then to mato; spread with cheese mixture.

Broil 3 to 4 inches from heat jus until topping begins to brown, abou 5 minutes. Cut in 3-inch squares Makes 4 light entrée or 12 appetize servings.—*S. G., Santa Clara, Calif.*

Garnish this puréed carrot soup with a golden carrot curl or parsley sprig

Smooth and Creamy Carrot Soup

Offer this quick-to-prepare vegetable soup for lunch or as a first course.

- 1 pound carrots (5 or 6 medium-size)
- 1 large onion, finely chopped
- 2 tablespoons butter or margarine
- 2 tablespoons *each* tomato paste and long-grain rice
- 1 quart regular-strength chicken broth
- ½ cup whipping cream
- Salt and pepper
- Parsley sprigs or carrot curls

Peel the carrots and finely chop; you should have 3 cups. In a 3- to 4-quart pan over medium heat, sauté the onion in the butter, stirring, until soft. Add carrots, tomato paste, rice, and broth. Bring to a boil, then reduce heat, cover, and simmer until carrots are very tender to bite, about 20 minutes. In a blender or food processor whirl about half the soup at a time until puréed (this can be done ahead; cover and chill up to 2 days).

To serve, return soup to the pan; add cream and bring soup just to simmering over medium heat, stirring occasionally. Season to taste with salt and pepper. Ladle into a soup tureen or into individual bowls; garnish with parsley sprigs or carrot curls. Serves 6 to 8.—*D. K., Menlo Park, Calif.*

Oven-frying is an especially easy way to prepare crispy chicken for a dozen

Crispy Oven-fried Chicken for a Dozen

Lining your baking pans with foil makes cleanup a breeze.

- 3 broiler-fryer chickens (*each* about 3½ lbs.), cut up
- 1¾ cups all-purpose flour
- ⅔ cup yellow cornmeal
- 1 tablespoon chili powder
- 2 teaspoons seasoned salt
- 1¼ teaspoons *each* thyme and oregano leaves
- ½ cup grated Parmesan cheese
- 1½ cups buttermilk
- ¾ cup (⅜ lb.) butter or margarine

Rinse chicken pieces; pat dry. In a bag, combine the flour, cornmeal, chili powder, salt, thyme, oregano, and cheese. Dip chicken pieces in buttermilk, drain briefly, then shake a few pieces at a time in the bag to coat evenly.

Line 2 rimmed 10- by 15-inch baking pans with foil. Place half the butter in each pan; set pans in a 400° oven to melt butter. Arrange chicken in pans, skin side down; turn to coat with butter. Bake on the two middle racks of a 400° oven for 25 minutes. Turn chicken, skin side up, and bake 25 to 30 minutes longer or until well browned and meat is no longer pink next to bone. Serve hot or at room temperature. Serves 12.—*C. W., Pearl City, Hawaii.*

sautéed liver slices in an onion-wine sauce, a creamy carrot soup, and a homey rhubarb and apple crisp.

Send your original recipes to *Sunset Magazine*, Menlo Park, Calif. 94025. We pay $25 for each recipe published.

Crispy chicken from the oven, quick carrot soup, rhubarb-apple crisp

Beef Liver in Red Wine Sauce

Hot buttered pasta and broccoli make fine accompaniments for this dish.

- 1 pound beef liver, sliced ½ inch thick
- ¾ cup dry red wine
- 2 tablespoons red wine vinegar
- 1 small onion, chopped
- ½ teaspoon oregano leaves
- ¼ teaspoon pepper
- 2 cloves garlic, minced or pressed
- 1 bay leaf
- 4 slices bacon, diced
- 1 tablespoon butter or margarine

Trim off and discard membrane from liver. Marinate liver in the wine, vinegar, onion, oregano, pepper, garlic, and bay for about 30 minutes. Lift liver from marinade, draining well. Save marinade, discarding bay leaf.

In a 10- to 12-inch frying pan over medium heat, cook bacon until crisp; remove bacon from pan and set aside. Discard all but 2 tablespoons bacon drippings. Add liver to pan and cook until browned on both sides and slightly pink in center. Transfer to a plate; top with bacon and keep warm. Add marinade to pan; boil over high heat, stirring, until reduced by half. Remove pan from heat and quickly stir in butter until it melts; pour sauce over liver. Serves 4.— *L. G., Bremerton, Wash.*

A pat of butter finishes off the wine sauce for quickly sautéed liver slices

Swiss Cheese and Egg Salad

As a salad, serve on or folded in lettuce leaves; as a sandwich, spread on a toasted whole-grain bread.

- ½ cup mayonnaise
- ¼ cup unflavored yogurt
- 2 teaspoons Dijon mustard
- 2 tablespoons drained capers
- ½ pound Swiss cheese
- 8 hard-cooked eggs, chopped
- 1 red or green bell pepper, seeded and chopped
- 3 green onions, chopped
- ¼ cup chopped parsley
- Salt and pepper
- Inner romaine lettuce leaves

In a large bowl, stir together the mayonnaise, yogurt, mustard, and capers. Cut the cheese into thin julienne strips. Add the cheese, eggs, bell pepper, onions, and parsley to the mayonnaise mixture and stir gently to blend thoroughly. Cover and chill at least 4 hours or overnight.

To serve, stir the salad gently to blend, then season to taste with salt and pepper. Spoon the salad into a bowl lined with romaine lettuce leaves or mound onto a lettuce-lined serving plate. If desired, let guests spoon portions of the salad onto individual lettuce leaves and fold up to eat out of hand. Makes about 8 servings.— *K. H., San Jose, Calif.*

Swiss cheese and eggs combine in this nutritious salad or sandwich mixture

Fresh Rhubarb and Apple Crisp

If calories don't count, top servings with ice cream or thick cream.

- 3 to 4 large Golden Delicious apples
- 1½ pounds rhubarb
- ⅓ cup firmly packed brown sugar
- 1 cup plus 2 tablespoons all-purpose flour
- 2 tablespoons quick-cooking tapioca
- 1 cup granulated sugar
- 1 teaspoon baking powder
- ¾ teaspoon ground cinnamon
- 1 egg
- ½ cup (¼ lb.) butter or margarine

Peel, core, and slice enough of the apples to make 5 cups. Trim off and discard rhubarb ends, then cut rhubarb into ½-inch slices. Combine fruit in a shallow, buttered 2-quart casserole.

Mix together brown sugar, 2 tablespoons of the flour, and tapioca; sprinkle over fruit. Combine remaining 1 cup flour, granulated sugar, baking powder, and cinnamon. Stir in egg to moisten, then scatter crumbs over fruit. Melt butter and drizzle on crumbs. Bake, uncovered, in a 350° oven until fruit is very tender when pierced and topping is crisp and browned, about 1 hour. Serve warm or cool. Makes 6 servings.—*R. L., La Pine, Ore.*

Rhubarb and apples bake under a crisp sugary topping for this homey dessert

Codfish and people go back together a long way

In this country, Boston is known as the capital of the codfish. But that denizen of the deep has a far longer history than that of our republic. We speak not of the fossil record here, but of human relations with a fish that was so common for so long that it was harvested like wheat from the cold North Atlantic and salted down to feed the multitudes.

At one time, the codfish swam by the millions into the Baltic each year, and together with Flemish woolens, founded the fortunes of the Hanseatic League. The salted fish went south from Lübeck and Hamburg to Bruges, where it was sold to southern traders in exchange for more salt, wines, spices from Asia via the Middle East, fruit from the warm Mediterranean, and fine leathers from Spain and North Africa. The northerners added Flemish textiles, amber from the Baltic shore, furs from Russian trading colonies, and food grains.

Several hundred years went by in the relative calm of medieval history until the climate changed, just a little, and the passage into the Baltic became shallow. The fish stopped coming to the fishermen. What came instead, with the spices from Asia, was the Black Death, and medieval civilization dwindled away.

The fish has outlasted the fisherman, the plague, and the Hundred Years' War, and still appears in our markets in salted form. Bailey Little, a New Englander who lives on a cliff in Aptos, California, gets a frequent hankering for the codfish of his native region. Singing New Bedford chanties and casting a sailor's eye out to sea, he then whips up an order of codfish balls. Try serving them with beans and fried eggs for breakfast or supper, or as appetizers.

Chefs of the West

The Art of Cooking . . . by men . . . for men

H. B. Little's Codfish Balls

- 1 box (1 lb.) dried codfish
- Water
- 3 medium-size russet potatoes
- 3 tablespoons butter or margarine
- 2 eggs
- 2 to 3 tablespoons half-and-half (light cream) or milk
- Salt and pepper
- Salad oil for frying
- ½ cup tomato-based chili sauce
- 1 teaspoon prepared horseradish

Place codfish in a medium-size bow pour in water to cover and refrigerat overnight, changing the water severa times. Drain. Place fish in a 3- to 4-quar pan; pour in water to cover. Bring to boil over high heat; cover, reduce heat and simmer for 3 to 5 minutes or unt fish is soft. Drain well. Whirl fish in food processor (or pull apart with you fingers) until finely shredded.

Meanwhile, peel the potatoes and cu into quarters; place in a 3- to 4-quar pan and add 1 inch water. Bring to boil over high heat; cover, reduce heat and boil gently until potatoes are tende when pierced, about 20 minutes. Drai well, then mash potatoes until free o lumps. Beat in butter, eggs, and codfish Add cream, 1 tablespoon at a time, unti mixture is sticky enough to shape into balls; season to taste with salt and pep per. Shape mixture into balls about 1½ inches in diameter.

Pour about 1 inch oil into a 10- to 12 inch frying pan; place over medium-high heat until temperature reaches 375° or a deep-fat frying thermometer. Add balls, a few at a time, and cook until browned on all sides; increase heat a necessary to keep oil at 375°. Lift ou with a slotted spoon, drain, and place in a warm oven until all are fried.

To serve, stir together chili sauce and horseradish; spoon into a small bowl and surround with hot codfish balls. Offer wooden picks to spear balls and dunk into sauce. Makes 3½ to 4 dozen balls; allow 3 or 4 for an appetizer serving.

Aptos, Calif.

The grand era of dips is long past. It was approximately contemporaneous with Doris Day movies and Saturday night at the drive-in. In those days, at the end of every mambo, one picked up a chip and delved into the bowl containing onion soup mix and sour cream, mashed avocado, or bean dip.

Those years are now so far in the past that they have returned as nostalgia. But the dips have remained, no longer fashionable, though still a handy thing to put among the assembled starers in front of the TV set. *Chef* Ross Figgins gives us

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*Source: Hansen, R.G., Wyse, B.W., Sorenson, A.W., The Nutritional Quality Index of Foods, AVI Publishing Co., Inc., Westport, Conn. 1979

his version of bean dip. Grab your chips, folks, and circle 'round.

Pinto Bean Dip

- 1 cup dried pinto beans
- 1 can (12 oz.) beer
- 1 can (14½ oz.) regular-strength beef broth
- 1 bay leaf
- 1 medium-size onion, chopped
- ¼ teaspoon liquid hot pepper seasoning
- 1 can (4 oz.) diced green chilies
- ½ teaspoon *each* ground cumin and oregano leaves
- Garlic salt and pepper
- ½ cup shredded sharp Cheddar cheese
- 1 small tomato, seeded and diced
- Chopped fresh coriander (cilantro)
- Tortilla chips

Sort through beans, discarding any foreign material. Rinse beans well and place in a 3- to 4-quart pan with the beer, broth, bay leaf, onion, and hot pepper seasoning. Bring to a boil over high heat; cover and simmer for 2½ to 3 hours or until beans mash readily. Whirl beans in a blender or food processor until smooth. Stir in chilies, cumin, oregano, and garlic salt and pepper to taste.

Spoon into a shallow serving bowl; cover and chill at least 2 hours or as long as overnight. Before serving, evenly sprinkle cheese and tomato over top and garnish with chopped coriander. Offer tortilla chips for dipping. Makes 2½ cups.

"At least one of our tasters fell into the dislike categor

Covina, Calif.

The round, red-skinned potato has great appeal for a great many people. It is often called a *new* potato, a misnomer, since it can be either new or old. It is a *kind* of potato.

In any event, it is colorful and slightly sweet. You either like those qualities, as most persons seem to do, or you dislike them. *Chef* Emil Toews bases his potato salad on this variety, and at least one of our tasters fell into the dislike category. Decide where you stand on this issue, then try a batch of the recipe in preparation for the hotter, longer days.

Summer Potato Salad

- About 3 pounds medium-size red thin-skinned potatoes
- Water
- 4 hard-cooked eggs, diced
- 2 cups coarsely shredded carrots
- 2 cups diced celery
- 1 medium-size mild red or white onion, chopped
- ½ cup chopped sweet pickle (optional)
- 2 tablespoons *each* all-purpose flour and sugar
- 1 tablespoon dry mustard
- 1½ cups milk
- 4 eggs, well beaten
- ⅔ cup vinegar
- 2 tablespoons butter or margarine
- Salt and pepper
- Chopped parsley

Place potatoes in a 4- to 5-quart kettle add about 1 inch water, cover, and brin to a boil over high heat. Reduce heat an

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Summer slimmer:

1. Slice slimming cooked potatoes and mix with tuna, chopped green peppers, tomatoes and onion rings.
2. Add refreshing KRAFT Creamy Cucumber Reduced Calorie Dressing.
3. Serve chilled with slight sunburn.

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boil gently for 20 minutes or until potatoes are tender when pierced. Drain.

When potatoes are cool enough to handle, peel if desired, then cut into ¾-inch dice. In a large bowl, combine potatoes, hard-cooked eggs, carrots, celery, onion, and pickle. Cover and chill.

In a 1- to 2-quart pan, stir together flour, sugar, and mustard. Smoothly blend in milk, then add beaten egg and vinegar. Cook over medium heat, stirring constantly, until thickened, about 10 minutes. Remove from heat and add butter. Beat briefly with a wire whip or rotary beater to ensure smoothness. Let cool.

Pour dressing over salad; stir gently until well combined. Season to taste with salt and pepper. Serve, or cover and chill as long as 24 hours. Garnish with parsley. Makes 6 to 8 servings.

Emil A. Jaeos
Sacramento

Chef David Bissonette makes a kind of granola bar that he calls cake. It is not exactly either, but it is healthy and crunchy and all those other things granola bars should be. It must be said at this point that certain members of that august body, the *Chefs of the West,* have been thoroughly overgranolaed by years of dependence on the stuff as it comes from the pouches of a backpack. In those circumstances, it keeps you alive and stops your hunger, but not your craving for a cup of coffee to go with it, or possibly for a cup of coffee with something else to go with it—such as *Chef* Bissonette's version, which contains coconut, jam, and yogurt.

Great Granola Cake

2 eggs, beaten
2 cups plain granola-type cereal
½ cup baking mix (biscuit mix)
1 teaspoon vanilla
4 tablespoons honey
½ cup grated unsweetened coconut
1 cup vanilla-flavored yogurt
2 tablespoons strawberry jam
1 tablespoon firmly packed brown sugar

In a large mixing bowl, stir together eggs, 1¾ cups of the granola, the baking mix, vanilla, honey, coconut, ½ cup of the yogurt, and the jam. Spread evenly in a well-greased 8-inch-square baking pan; spread remaining ½ cup yogurt and the remaining ¼ cup granola over top, and sprinkle with brown sugar.

Bake in a 350° oven for 35 minutes or until top appears dry and is set when lightly touched. Serve warm, cut into 2-inch squares. Makes 16.

David Bissonette
Santa Monica, Calif.

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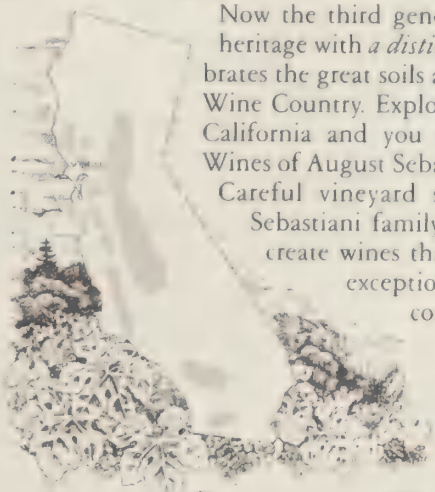

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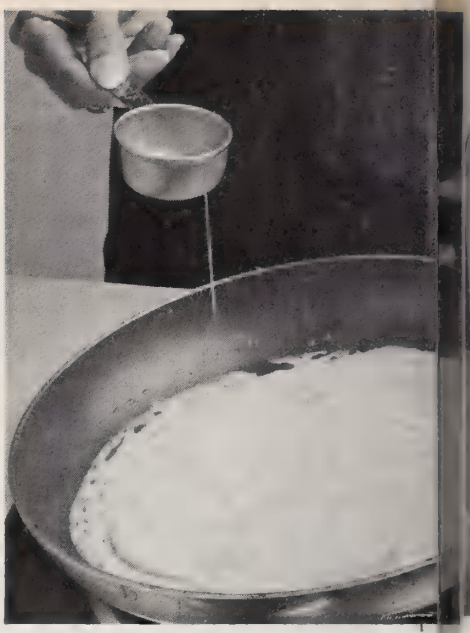
The wrapping is a crêpe. The tie is spinach. Inside is pork or shrimp. They're golden egg bundles



1 . *Pour beaten egg into pan and quickly tilt pan to form a thin, even wrapper*

Looking like small gift-wrapped packages, these filled egg bundles make a dramatic and unusual first course for a special meal. They are easier to make than you might think, and you can choose a hot or cold filling.

The golden cloak is simply beaten eggs, fried to make a thin crêpe-like wrapper. The filling can be a cool, refreshing shrimp salad, or a hot, spicy pork mixture. Gather the egg wrapper up over the filling and tie with a wilted spinach leaf to secure. The bundles can be assembled completely ahead. To present, line plates with fresh spinach leaves, then top with cold shrimp-filled bundles or hot pork bundles.

You might follow these stylish openers with grilled fish, scallops, or chicken, accompanied by butter-steamed Chinese pea pods or sugar snap peas. Conclude with fresh berries or a fruit sorbet.

Egg Bundles

4 or 5 eggs
Water
Salad oil
12 to 16 large spinach leaves with stems
Shrimp salad or spicy pork filling (recipes follow)

Beat together 4 to 5 eggs and 2 tablespoons water to make 1 cup. Heat a nonstick frying pan that measures 10 inches across bottom over medium-low heat. Brush 1 teaspoon salad oil over pan bottom and slightly up the sides. When pan is hot, pour in ¼ cup of the egg mixture all at once and quickly tilt pan to evenly cover pan bottom. Cook just until egg is set and feels dry on top (you do not need to cook other side); turn out onto a paper towel-lined plate. Continue making wrappers, stacking them as done. Makes 4.

(Note: Because wrappers tear easily unless handled gently, you may wish to make 1 or 2 extra. If so, add 1 large egg and 1½ teaspoons water to the above mixture for each additional wrapper.)

In a 10- or 12-inch frying pan, bring about 2 quarts water to boiling. Select 4 large spinach leaves with stems (10 to 12 inches long) and cook, submerged, just until leaves are wilted and stems are pliable, about 30 seconds. Rinse with cold water and drain; set aside.

To assemble, divide shrimp or pork filling into 4 equal portions. Place a portion of filling in the center of each wrapper. Gently gather edges of wrapper around filling. Carefully wind wilted spinach around wrapper and tie a knot to secure (see pictures above). You may need an extra pair of hands to help. If made ahead, cover and chill as long as overnight before serving.

To reheat pork-filled bundles, place them on a shallow plate or pan that will fit on a rack inside a wok, steamer, or deep frying pan. Drape plate with a piece of waxed paper. Fill bottom of pan with about 1 inch of water. Cover pan and bring water to boiling; steam just until bundles are hot, 3 to 5 minutes.

To serve, line 4 plates with 2 or 3 large spinach leaves, stems trimmed off. Set a cold shrimp-filled bundle or hot pork bundle on each plate. Makes 4 servings.

Shrimp salad. Cut 1 small **cucumber** (peel, if desired) in half lengthwise; scoop out seeds with a spoon and discard. Thinly slice cucumber and mix with 1 tablespoon **salt;** let stand 20 to 30 minutes. Rinse and squeeze out water.

Soak 4 small **dried Oriental mushrooms** in hot **water** to cover until soft and pliable, 20 to 30 minutes. Squeeze out excess water, cut off tough stems, and sliver caps. (If mushrooms are not available, omit and substitute 1 small **carrot** peeled and shredded.)

Mix together 6 tablespoons **white wine vinegar,** 2 tablespoons **sugar,** and ½ teaspoon *each* **soy sauce** and minced **fresh ginger;** stir until sugar dissolves. Mix in ¼ pound **small cooked shrimp,** the cucumber, and mushrooms. Cover and chill, stirring occasionally, for at least 30 minutes. Drain marinade before assembling bundles.

Spicy pork filling. Cut enough **spinach leaves** into thin shreds to make 2 cups, lightly packed; set aside.

Blend 2 tablespoons **dry sherry** into 1 tablespoon **cornstarch;** add 1½ tablespoons **soy sauce,** 1 teaspoon *each* **sugar** and **vinegar,** a dash of **cayenne,** and ½ cup **water.** Set aside.

In an 8- or 10-inch frying pan over medium heat, cook ½ pound **lean ground pork** in 1 tablespoon **salad oil,** stirring, until browned and crumbly; drain off and discard all except 2 tablespoons fat. Add 2 cloves **garlic,** pressed or minced; 1 teaspoon minced **fresh ginger;** 1 small **onion,** finely chopped; and ½ teaspoon **ground coriander.** Cook, stirring, until onion is limp.

Stir spinach into pork mixture and cook just until wilted, about 30 seconds. Add cornstarch mixture and cook, stirring, until it boils and thickens. Add **salt** and **cayenne** to taste. Cool filling to room temperature to use, or cover and chill as long as overnight. □

DARROW M. WATT

2 . *Place salad or pork mixture in center of wrapper, then carefully gather wrapper around filling*

3 . *Gently tie a wilted spinach leaf around wrapper to enclose filling*

FERI SANDISON

Golden bundle *with spinach tie holds a cold shrimp salad or hot pork filling. Serve on spinach leaves for a first course*

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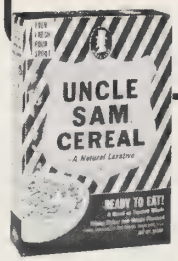

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DARROW M. W

Piquant *Mediterranean olive sauce seasons chicken breasts for an attractive company or family main dish*

Chicken breasts Mediterranean

Quick-cooking chicken breasts are t foundation of this dinner entrée. Y brown the chicken in olive oil, then a elements for a Mediterranean-style sau of olives, onions, thyme, and wine. Wh breasts are cooked, you concentrate fl vors in the sauce by boiling away t seasoned liquid.

Chicken and Olive Piccata

- ⅓ cup olive or salad oil
- 2 whole chicken breasts (about 1½ lbs.), split and boned
- 1 small onion, finely chopped
- 1 can (6 oz.) ripe or green ripe pitted olives, drained
- ½ teaspoon thyme leaves
- 1 cup dry white wine
- 4 thin lemon slices
- ⅓ cup finely chopped parsley
- Capers

Pour oil into a 10- to 12-inch frying pa set on medium heat. Add chicken an brown well, about 5 minutes on eac side; remove and set aside.

Add the onion, olives, and thyme to oi cook and stir until onion is golden, abou 5 minutes. Add wine, chicken, and juice to pan; top each breast half with 1 lemo slice. Cover and cook on medium hea until chicken is no longer pink insid (slash to test), about 10 minutes. Pu chicken on a platter and keep warm.

On highest heat, boil sauce until liqui evaporates, stirring frequently. Mix i parsley. Surround chicken with sauc and garnish with capers. Serves 4.

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Savory snack: fish jerky, tender or chewy

DAVID STUBBS

At break time, *savory salmon jerky is a welcome snack*

Fish jerky—seasoned and dried like its beef counterpart—is popular in Asia and parts of Europe where fish is a mainstay of the diet. This method of preparation came about as a means of preserving the catch. In Hawaii, true cod (as distinguished from lingcod) is most often prepared this way—but salmon and rockfish also work well.

Our fish jerky makes a tasty snack or appetizer. It also travels well, with no special care for hiking and camping, and keeps almost indefinitely at room temperature.

The procedure for fish jerky is the same as for beef. You slice the fish, introduce flavor in a marinade, then dry the slices in the oven or a dehydrator. Partial freezing makes the fish easier to slice—a long, sharp knife helps, too.

If you like a chewy jerky, slice fish with the grain; for tender jerky, slice across the grain.

Salmon or Rockfish Jerky

- 2 pounds boned and skinned salmon or rockfish fillets, partially frozen
- ½ cup soy sauce
- 2 tablespoons sugar
- ½ teaspoon minced fresh ginger
- ¼ teaspoon freshly ground pepper

Slice fish with or across the grain into ¼-inch-thick strips.

In a 10- to 12-inch pan, combine soy sauce, sugar, and ginger. Bring to a boil over high heat; remove from heat. Add fish strips, mix thoroughly, and set aside; let stand 5 minutes for lightly seasoned jerky, 15 minutes for more strongly seasoned jerky. Lift strips from marinade and arrange close together (but not overlapping) on wire racks set in rimmed shallow pans or dehydrator racks (line pans with foil, if you like). Sprinkle on both sides with pepper.

Dry fish in a 150° oven or dehydrator until strips become leathery and feel firm and dry, 5 to 6 hours (in an oven, you'll need to rotate pans each hour for even drying); cool. Remove from racks and store in airtight containers. Makes about 12 ounces. □

Slice fish *with or across grain, marinate in soy sauce and seasonings, then slide into the oven or dehydrator so slow, gentle drying can preserve it*

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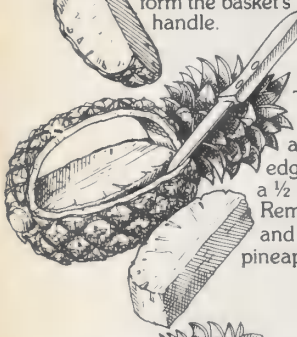
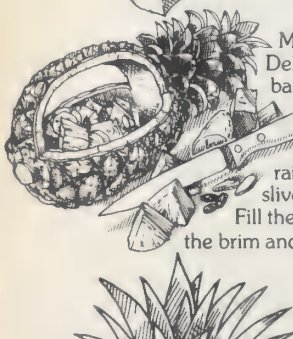
Make a fresh Fruit Basket. Just cut two quarter sections from the top, down and across, leaving an inch or two between to form the basket's handle.



Then, carefully cut around the edges to leave a ½ inch shell. Remove, core and cube the pineapple inside.



Mix with fresh Del Monte banana and papaya. Add some raisins and slivered almonds. Fill the basket to the brim and serve.

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DAVID STUBBS

For a morning smile, *try pasta in lemon cream with strawberries*

Pasta with fruit . . . it's breakfast

Pasta for breakfast seems an unlikely notion at first. But you may find it's much like eating hot cereal in the morning.

Consider slender strands of vermicelli dressed in lemon cream to swirl around sliced strawberries. For a more familiar form, try tiny bits of pasta (pastina) in an orange-honey custard; it's quite like rice pudding. Use any form of tiny pasta; stars, circles, rice-like shapes.

Honey-Orange Pastina Breakfast Custard

Water
6 ounces (1 cup) pastina
4 medium-size oranges
4 egg yolks
⅓ cup honey
2 cups milk
1½ teaspoons vanilla
Ground cinnamon

In a 5- to 6-quart pan, bring 3 to 4 quarts water to boiling. Add pastina and cook until barely tender to bite, about 10 minutes. Drain and set aside.

Grate enough oranges to make 1 teaspoon grated peel; reserve for custard. Cut away peel and white pith from all the oranges. Cut between white membranes to free segments; reserve fruit.

In the top of a double boiler, mix egg yolks and honey. In a 1- to 2-quart pan, bring milk to scalding on medium-high heat, then stir into the egg mixture.

Place over simmering water and cook, stirring constantly, until custard thickly coats a metal spoon, about 15 minutes. Stir in grated orange peel, vanilla, and the pasta.

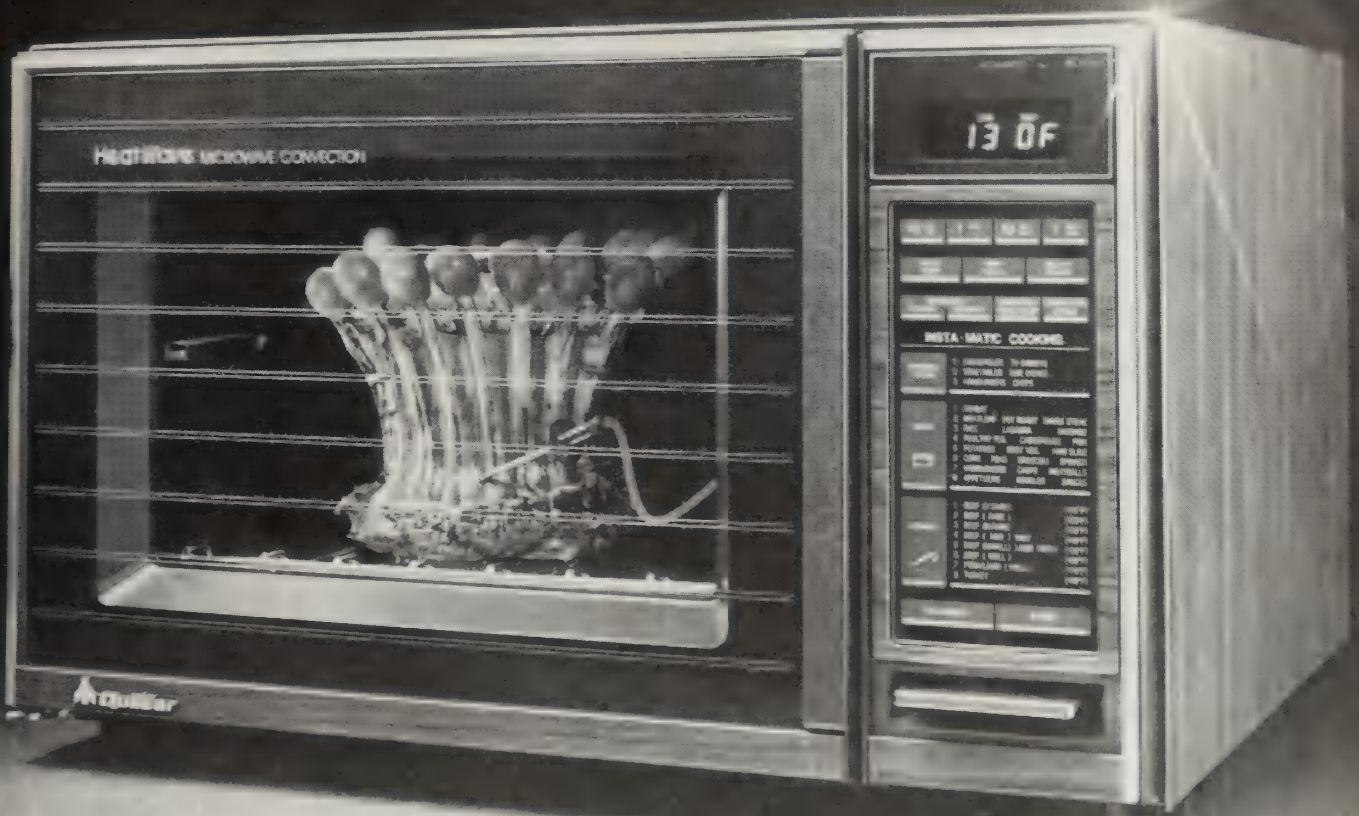
Serve warm, ladled into bowls. Top each serving with a few orange segments and a sprinkling of ground cinnamon. Pass remaining orange segments. Makes 4 to 6 servings.

Lemon-Cream Pasta with Strawberries

In a 5- to 6-quart pan, bring 3 to 4 quarts **water** to boiling. Add 5 ounces **coil vermicelli** and boil until barely tender to bite, about 2 minutes. Drain. (If the thicker, straight vermicelli is used, cook it about 9 minutes.)

In a 10- to 12-inch frying pan over high heat, stir 1 cup **whipping cream,** 2 tablespoons *each* **lemon juice** and **sugar,** and 1 teaspoon grated **lemon peel,** just until boiling vigorously. Stir in pasta.

Serve on plates. Sprinkle with freshly grated **nutmeg** and top with sliced sweetened **strawberries** (about 2 cups total). Makes 3 to 4 servings. □



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Guam-style fiesta in Oakland

At outdoor fiesta, *Mickie Mumford serves her guests Guamanian specialties: barbecued spareribs, vegetables topped with coconut milk and lemon juice, tropical fruit, and red rice*
DARROW M. WATT

In Guam, fiestas are like big open-house parties. Everyone comes to enjoy good food and friendly company.

You can stage your own Guamanian fiesta at home with this menu from the Mumford family, owners of the Pacific Exchange Restaurant in Oakland.

The dishes reflect Guam's varied culinary heritage: you'll taste flavors from Spain, the Philippines, Japan, and America. Much of the preparation can be done ahead, and you'll find the menu lends itself to casual outdoor dining.

Guamanian Fiesta for 12

Lemony Chicken and Coconut Appetizer (optional)
Potato Salad (optional)
Chamorro-style Barbecued Ribs
Guamanian-style Vegetables
Red Rice **Soy Condiment**
Tropical Fruits **Punch, wine, or beer**

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cristal d'arques

Guamanian appetizer. A cut-up chicken is partially cooked, then steeped in lemon juice much in the manner of *seviche*. The chicken is mixed with coconut and chili, and spooned into lettuce leaves to eat.

The pork spareribs are marinated and oven-braised ahead, so they're ready to brown on the grill. Vegetables can also be cooked ahead, then garnished with coconut and lemon before serving. You can prepare the rice while the coals burn down, or make it early and reheat.

Offer the tart soy condiment to spoon over individual servings of meat, rice, or vegetable. Another traditional accompaniment is potato salad; use your favorite recipe.

For dessert, serve a selection of fresh fruit such as pineapple spears and papaya slices served in pineapple shells. Watermelon wedges, cut oranges, and bananas are other possibilities.

You can make the menu without any exotic ingredients, but for the most authentic flavors, you might want to do some special shopping. The *achiote* seeds that color the rice red are available at Mexican groceries.

Dark fermented soy bean paste, *aka miso*, gives the ribs a slightly salty, distinctive coating; look for it in Japanese markets. Unsweetened coconut milk, available frozen or canned in Oriental markets, can be paired with lemon juice to flavor the vegetables. To add spice to the soy condiment, the Mumfords use small hot serrano chilies, but you can substitute any hot chilies according to your taste.

Lemony Chicken and Coconut Appetizer

- 1½ cups unsweetened shredded coconut
- Hot water
- 1 broiler-fryer chicken (about 3 lbs.), cut in quarters
- ¼ cup chopped onion
- ½ cup lemon juice
- 2 or 3 tablespoons finely chopped fresh, pickled, or canned hot chili
- 1 teaspoon salt
- Lemon wedges
- 2 small heads red leaf or butter lettuce, washed and separated into leaves

Soak the coconut in hot water to cover until soft, about 20 minutes. Meanwhile, broil chicken 4 to 6 inches from heat, turning once, for 25 to 30 minutes (it should be slightly pink when slashed). When cool enough to handle, discard skin and bones and finely chop the meat. Drain coconut and squeeze out excess liquid. Mix chicken with the onion, lemon juice, chili, salt, and coconut. Cover and chill up to 24 hours.

To serve, garnish with lemon wedges and surround with lettuce leaves. Eat by spooning chicken mixture into lettuce leaves. Squeeze on extra lemon, if desired. Makes 12 appetizer servings.

Chamorro-style Barbecued Ribs

- ⅔ cup chopped onion
- ⅓ cup aka miso (optional)
- 2 teaspoons paprika
- 1 teaspoon minced garlic
- 1¼ teaspoons pepper
- ¼ teaspoon cayenne
- 1 cup lemon juice
- 2 cups soy sauce
- 1 cup water
- 10 to 12 pounds pork spareribs, cut into serving-size pieces

Stir together the onion, aka miso, paprika, garlic, pepper, cayenne, lemon juice, and soy sauce. Pour over spareribs, cover and chill at least 4 hours or overnight, turning meat occasionally. Lift ribs from marinade and place in 2 shallow 11- by 17-inch roasting pans. Place ¼ cup of the marinade (reserve remaining marinade) and ½ cup of the water in each pan. Cover and bake in a 350° oven until tender, about 1½ hours. Drain off fat and liquid. Cover and chill, if done ahead.

To barbecue, place ribs on a lightly greased grill 4 to 6 inches above a solid bed of low-glowing coals. Cook 15 to 20 minutes, basting with reserved marinade and turning frequently until browned. Makes 10 to 12 servings.

Guamanian-style Vegetables

Remove ends and strings from 1½ pounds **green beans.** Cut off tough ends of 1½ pounds **broccoli.** Cut broccoli stalks and flowerets thicker than 1 inch in half lengthwise.

Steam vegetables separately on a rack over **boiling water** until tender-crisp, 5 to 7 minutes. Shortly before serving, top *each* vegetable with 3 to 4 tablespoons **lemon juice** and 4 to 6 tablespoons **coconut milk** (optional). Serve at room temperature or cold, with additional **lemon wedges. Salt** to taste. Makes 12 servings.

Red Rice

Soak ¼ cup **achiote seeds** in 1 cup **warm water** for 20 to 30 minutes. Rub the seeds in the water, rubbing off all the color; discard seeds and reserve colored water. (Or instead of achiote, mix 2 tablespoons paprika with 1 cup water.)

In a 3- to 4-quart pan, sauté ½ cup chopped **onion** in 2 tablespoons **salad oil** until limp. Add 3 cups **long-grain rice,** 1 teaspoon **salt,** the red water, and 5 additional cups **water.** Boil, uncovered, until most of the water has evaporated, about 10 minutes. Reduce heat to low, cover, and cook about 15 minutes longer, until rice is tender. Makes 10 to 12 servings.

Soy Condiment

Stir together ½ cup **soy sauce,** ⅓ cup **wine vinegar,** 2 tablespoons thinly sliced **green onion,** and **minced fresh,** pickled, or canned **hot chilies** to taste. Makes 1 cup condiment. □

Soy *spiked with chilies and onion adds spiciness and zest to rice, ribs, vegetables*

DARROW M. WATT

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ROBUSTO SALAD SPECIAL

2 quarts mixed salad greens
1 medium cucumber, sliced
1 red or green pepper, cut into strips
1 cup cauliflowerets
1 cup pitted ripe olives, sliced
2 tablespoons grated parmesan cheese (optional)
⅔ cup Wish-Bone® Robusto Italian Dressing

In salad bowl, combine all ingredients except dressing. Just before serving, toss with dressing. Makes about 6 servings.

From the Wish-Bone Garden of Dressings.

Scoop *flesh from baked potatoes, then crisp skins in hot oil or with butter in the oven*

Skeptical *but tempted, guest tries fried potato skins filled with peanut butter and chutney*

Crisp potato skins, crackly potato peels . . . irresistible

DAVID STUBBS

Hot, cheese-crusted *potato skins are ready to dip into mild salsa for a wholesome party appetizer*

A serious look at a potato shows the outside is quite as interesting as the inside. The skin, often tossed away, is a notable repository of nutrients. When it's cooked crisp for snacks and appetizers, even folks who leave baked potato skins on their plates will take notice.

Here we crisp baked potato skins in hot oil or with butter, then team them with seasonings and sauces. Equally tempting are raw potato peelings fried into fragile, crackling twirls.

For the baked potato insides, we give a recipe for a handsome pie. Or you can resort to favorite preparations of mashed potatoes or potato pancakes.

Basic Potato Skins

Scrub 5 large (about 3 lbs.) **russet potatoes** and pierce each with a fork. Bake in a 400° oven until potatoes feel soft when squeezed, about 1 hour.

Let potatoes stand until cool enough to touch; cut in half lengthwise, then crosswise into quarters. Scoop flesh from skins, using a spoon, leaving a ⅛-inch-thick shell; reserve flesh for other uses.

Deep-fry or oven-fry; if made ahead, hold at room temperature, uncovered, up to 6 hours.

To deep fry: In a deep 3- to 4-quart pan over high heat, bring 2 inches **salad oil** to 400° on a deep-fat thermometer. Add potato skins, about 6 at a time, and fry until crisp and golden, about 1 minute. Lift from oil with a slotted spoon and drain on paper towels.

To oven-fry: Brush potato skins inside and out with **melted butter** or margarine (you need about ⅓ cup). Place skins, cut side up, side by side on a 12- by 15-inch baking sheet. Bake in a 500° oven until crisp, about 12 minutes.

Serve deep-fried or oven-fried potato skins hot, either plain or sprinkled with salt; or use in one of the following recipes. If made ahead, reheat by placing skins, cut side up, side by side on a 12- by 15-inch baking sheet. Bake in a 400° oven until crisp, about 8 minutes. Makes 4 to 6 appetizer servings.

Salsa Skins

Stir together 1 can (8 oz.) **tomato sauce,** 1 can (4 oz.) **diced green chilies,** and ¼ cup chopped **green onions,** including some tops. Pour salsa into a small serving bowl. (If made ahead, cover and chill as long as overnight.)

Prepare **basic potato skins** as directed, but cut lengthwise in quarters instead of halves; do not cut crosswise.

Place the hot skins side by side, cut side up, on a shallow 12- by 15-inch baking

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STRAWBERRY CREAM PIE

- 1 8-oz. pkg. PHILADELPHIA BRAND Cream Cheese
- ¼ cup granulated sugar
- ½ teaspoon vanilla
- Dash of nutmeg
- 1 cup strawberry slices
- 1 cup whipping cream
- ¼ cup sifted confectioners' sugar
- 1 9-inch KEEBLER® Ready-Crust® graham cracker pie crust

Combine softened cream cheese, granulated sugar, vanilla and nutmeg, mixing until well blended. Mash ¾ cup strawberry slices; stir into cream cheese mixture. Whip cream with confectioners' sugar until stiff peaks form; fold into cream cheese mixture. Fold remaining strawberries into cream cheese mixture; spoon into crust. Chill several hours or overnight. Garnish with additional strawberries, if desired.

KRAFT

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DAVID STUBBS

sheet. Distribute ¾ cup (3 oz.) *each* shredded **Cheddar** and **jack cheese** among skins, filling equally. Broil 4 inches from heat until cheeses melt, about 2 minutes. Serve with chili salsa for dipping. Makes 4 to 6 appetizer servings.—*P. S., Hillsborough, Calif.*

Peanut Butter and Chutney Potato Skins

Prepare **basic potato skins** as directed; arrange hot skins side by side, cut side up, on a 12- by 15-inch baking sheet. Spoon into *each* skin about 1 teaspoon **chunk-style peanut butter** (¾ to 1 cup total) and ½ teaspoon **chutney** (¼ to ⅓ cup total). Broil 4 inches from heat until peanut butter begins to melt, about 2 minutes. Serve hot. Makes 4 to 6 appetizer servings.

Crisp and curly *potato skins are switch from potato chips for after-school snack*

Potato Skin Curls

Scrub 5 large (about 3 lbs.) **russet pota toes.** Pare, using a vegetable peeler an going around and around each potato t get strips as long as possible. Immers peels in very cold **water** and let stan about 1 minute; this promotes curlines (Save potatoes for other uses; to kee fresh, cover with cold water and refrig erate as long as 3 days.)

Drain peelings and gently pat dry o paper towels. Deep-fry in **salad oil** a directed under basic potato skins, addin a quarter of the skins at a time. Lift fror oil with a slotted spoon and drain on pa per towels. Serve plain or sprinkled wit **salt.** Makes 3 to 4 snack-size servings.

Potatoes in a Pastry Shell

Use **potatoes,** hot or cold, scooped fror shells of 5 large baked russet potatoes You should have about 4 cups.

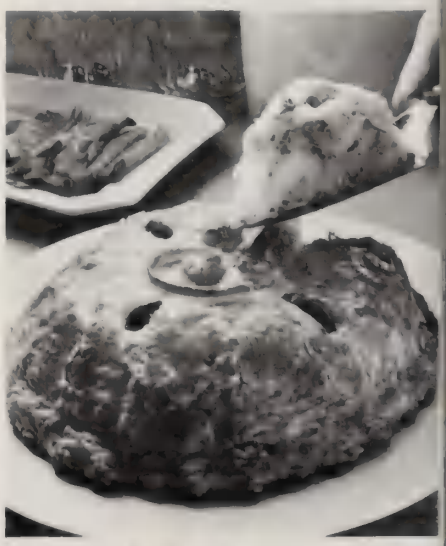
Place potatoes in a large bowl and ad ⅓ cup melted **butter** or margarine, ½ cup hot **whipping cream,** ½ cup finel chopped **parsley,** 3 cloves **garlic** (mince or pressed), and 1 teaspoon dry **Italia herbs.** Blend gently with a fork; don mash. Season with **salt** and **pepper.**

Thaw 4 frozen **patty shells.** Stack 2 shell and roll on a floured board to make a 9½-inch round, and transfer to a 10- b 15-inch baking sheet.

Stack remaining shells; roll on floure board into a 10½-inch round.

Mound potatoes in center of smalle round, leaving ½-inch pastry border Top with larger round; press pastr edges firmly together. Fold bottom edg over top, pressing firmly with fork o fingers to seal tightly. Pat top to flatten.

Beat 1 **egg** to blend; brush over pastry Slash pastry top in 3 places. Bake or lowest rack in a 400° oven until golder brown, about 25 minutes. Transfer to a serving platter with a wide spatula; cu into wedges. Makes 6 to 8 servings.



Leftover potatoes *in puff pastry make elegant vegetable dish*

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Meatball and sauce supper

DARROW M. WATT

Spoon meatballs *and zesty tomato sauce into warmed pocket-bread halves to make satisfying hot sandwiches for supper*

Fresh mint and coriander and a blend of sweet spices give meatballs in tomato sauce Mediterranean character. Serve the sauced meatballs, piping hot, in one of three ways: in sandwiches, atop baked eggplant slices, or spooned over pasta.

For sandwiches, wrap 4 or 5 rounds of **Arab pocket bread** (cut in half) or 8 to 10 split French rolls in foil and heat in a 300° oven for about 15 minutes.

To assemble, spoon 3 or 4 **meatballs with sauce** into each bread half. Offer 1 cup **unflavored yogurt** and 2 cups **coriander sprigs** (cilantro) or shredded iceberg lettuce to tuck in sandwiches.

For eggplant slices, cut 2 large (1½ lbs. *each*) **eggplants** into ¾-inch slices and arrange, slightly overlapping, in an ungreased 12- by 15-inch rimmed baking pan. Combine 3 tablespoons *each* **salad oil** or olive oil and melted **butter** or margarine and brush half over eggplant.

Bake uncovered, on lowest rack of a 400° oven for 20 minutes. Turn over and brush remaining oil mixture over tops. Bake for 20 minutes more or until soft and mushy.

Spoon **meatballs with sauce** on eggplant slices to serve. Garnish with **coriander sprigs** or parsley sprigs.

For pasta, cook 2 pounds **spaghetti** or egg noodles in boiling **water** as package directs. Drain and pour onto serving platter; spoon **meatballs with sauce** over top and sprinkle generously with 1 cup grated **Parmesan cheese;** serve.

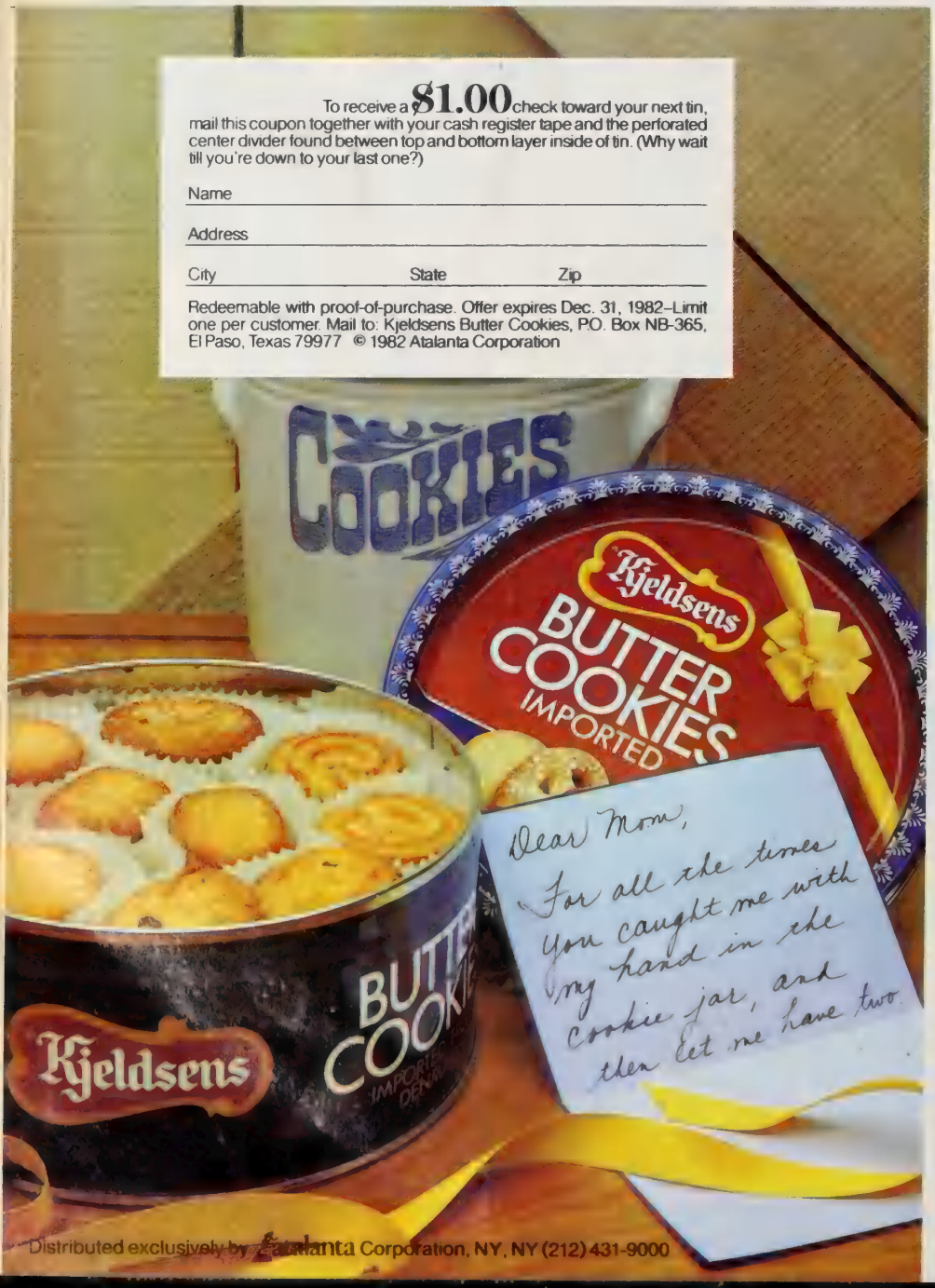
Spicy Mediterranean Meatballs

- 3 tablespoons salad oil
- 2 medium-size onions, chopped
- 3 cloves garlic, minced or pressed
- 1 teaspoon *each* minced fresh ginger and ground cumin
- 1 tablespoon paprika
- ¼ cup finely chopped fresh coriander (cilantro) or parsley
- 3 tablespoons red wine vinegar
- 2 large firm ripe tomatoes, peeled and chopped
- 1 can (14½ oz.) regular-strength beef broth
- 1 beef bouillon cube
- Meatballs (recipe follows)
- 1 can (6 oz.) tomato paste

In a 10- to 12-inch frying pan, combine oil and onion. Cook, stirring, over medium-high heat until onion is limp, about 5 minutes. Stir in garlic, ginger, cumin, paprika, coriander, vinegar, tomatoes, broth, and bouillon cube. Turn heat to high and cook, stirring, until mixture boils. Add meatballs; reduce heat, cover, and simmer for 1 hour. With a slotted or runcible spoon, transfer meatballs to a serving dish and keep hot.

Return heat to high and stir in tomato paste. Cook, stirring, until sauce thickens, about 10 minutes; spoon over meatballs. Serve according to preceding suggestions. Makes 8 to 10 servings.—*S. F., Napa, Calif.*

Meatballs. In a large bowl, crumble 1½ pounds **ground lean beef,** lamb, or turkey. Add 1 large **onion** (finely chopped), ¼ cup fine **dry bread crumbs,** and 3 **eggs;** mix well. Sprinkle in ¼ cup *each* finely chopped **coriander** (cilantro) or parsley and fresh **mint,** 1 tablespoon **paprika,** 1 teaspoon **salt,** ½ teaspoon **pepper,** and ¼ teaspoon **ground cloves** and mix thoroughly. Shape into 1-inch balls. Cook in sauce, or set slightly apart on pan or pans and cover and refrigerate as long as overnight. □



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Portable chili for a tailgate picnic

NIKOLAY ZUREK

Flexibility is what picnicking is all abou You can simply spread a buy-and-serv deli menu out on a cloth or, for a mor elaborate meal, cook up a family favor ite such as this traveling chili for a tail gate buffet. Its add-on condiments giv plenty of options to please individua tastes.

This is just one of the suggestions you' find in *Picnic & Tailgate Parties* (Lan Publishing Co., Menlo Park, Calif 1982; $4.95), a new *Sunset* book fille with an imaginative collection of menu and recipes. It also includes ideas fo planning a picnic, directions on how t pack and transport hot and cold foods and a survey of picnic paraphernalia.

Layered Chili

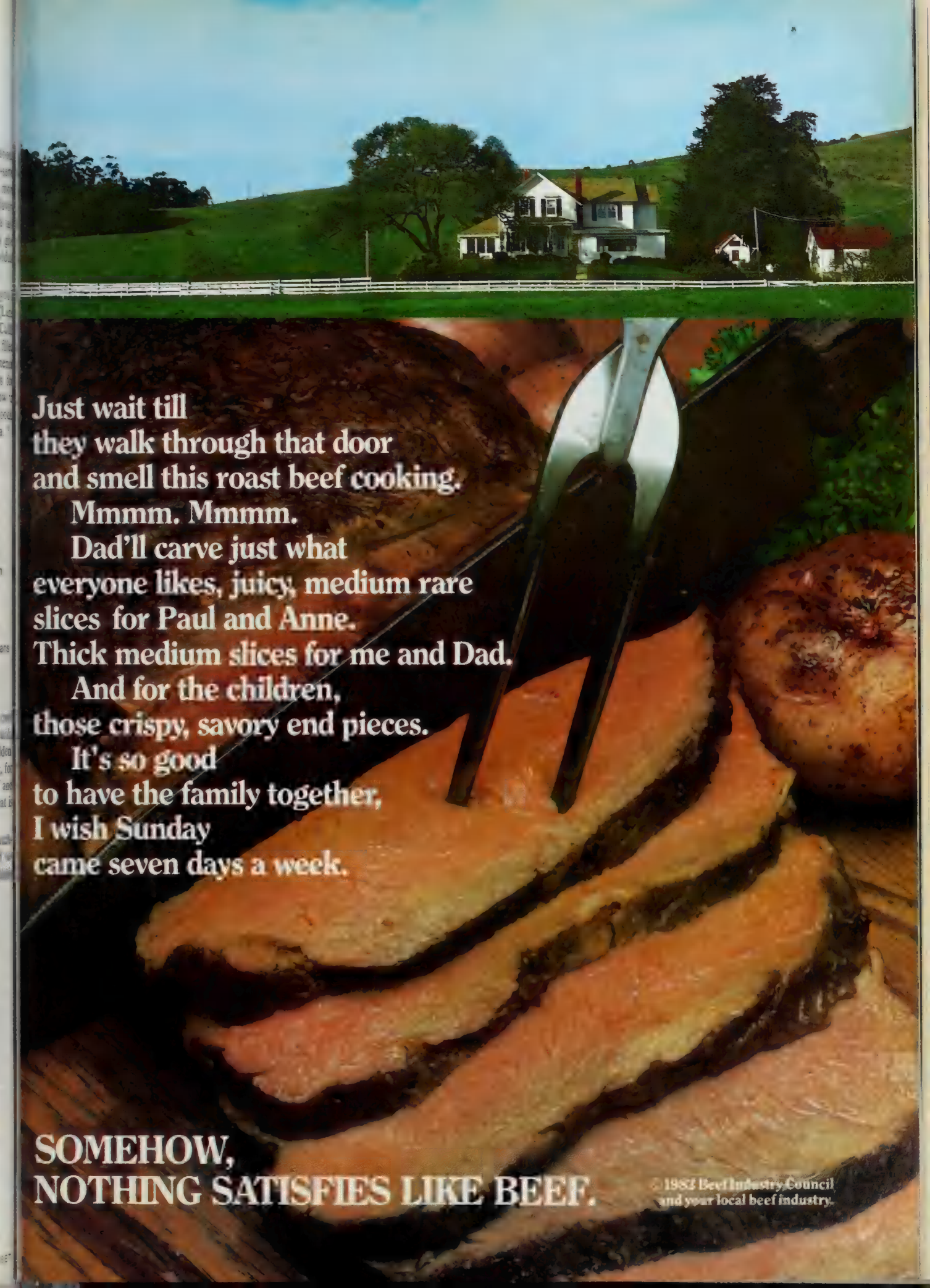
- 6 tablespoons salad oil
- 4 large onions, chopped
- 1 tablespoon mustard seed
- 1½ pounds ground lean beef
- 4½ teaspoons chili powder
- 1 teaspoon cumin seed
- ¼ teaspoon *each* ground cardamom and cinnamon
- 1 can (6 oz.) tomato paste
- 1 can (1 lb.) tomatoes
- About 1 cup water
- 3 cans (about 1 lb. *each*) kidney beans
- Pink onions (recipe follows)
- Relishes (suggestions follow)
- 3 or 4 limes, cut in wedges

Heat oil in an 8- to 10-quart kettle over medium-high heat; add onions and cook, stirring, until soft and slightly golden. Add mustard seed and cook, stirring, for about 1 minute. Crumble in the beef and cook, stirring occasionally, until meat is lightly browned.

Add chili powder, cumin seed, cardamom, cinnamon, tomato paste, and tomatoes (break up with a spoon) and their

New Sunset book *has 96 pages of portable picnic foods and menu ideas*

Spread out *on a tailgate, chili buffet includes choice of condiments and wedges of lime to try with individual servings*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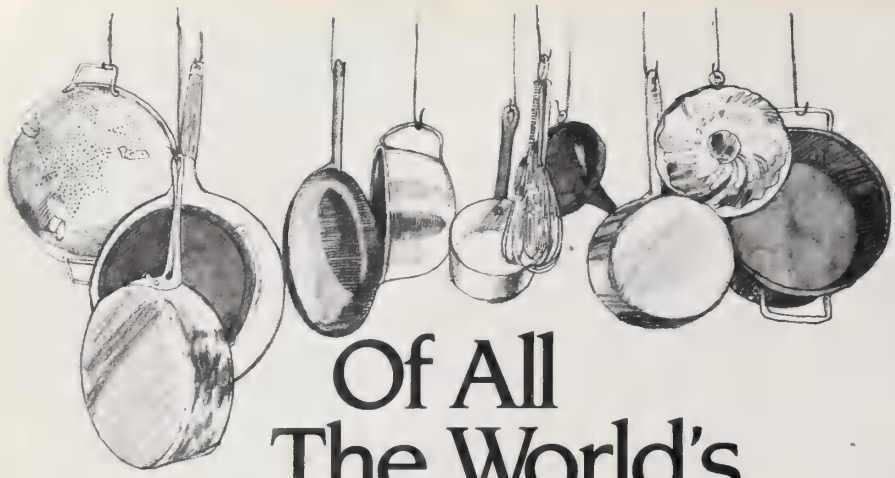

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Rye bread sandwiches with cheese and olive filling ride to the picnic in their bread container. Baked ham, potato salad roll, watermelon, relishes, complete menu

The tailgate is the picnic table

Any family with a station wagon can have a picnic—minus ants, sand, dirt, and the bother of hunting up a picnic table—off the tail gate of their car. As picnics go, this type is easy yet elegant. Whenever the family agrees to stop, down goes the tail gate and out comes the checked cloth to spread over it. The food hamper is opened up, and the picnic buffet is ready.

It is easiest to have most of the food cold. However, if you have a big vacuum jug, you can fill it with some hot mixture such as spaghetti, chili beans, or soup. One each one likes best from a selection of thighs, legs, and breasts. After the chicken is cold, you can pack it in cake boxes or cartons and freeze it. By the time you decide to stop driving, the chicken is thawed but still cold.

Tomatoes are always refreshing on a picnic. You might cut each peeled tomato into quarters, put it back together again, and wrap individually in foil or wax paper. Or, if you think that someone in the family will like a tomato and lettuce sandwich with the chicken, cut the tomato

Sunset's suggestions *for "tailgating" go back to September 1954, when we first used the back of a station wagon for a table*

liquid. Pour in 1 cup water and beans. Simmer rapidly, uncovered, until most of the liquid has evaporated and chili is thickened, about 40 minutes; stir frequently.

If made ahead, cool, cover, and refrigerate as long as 2 days; reheat, adding water if necessary.

Seal kettle in heavy foil and then wrap in 6 to 8 layers of newspaper and tie with string. Transport in a closed box or insulated chest or bag; food will stay hot about 3 hours.

To serve, ladle hot chili into bowls and top with pink onions and relishes. Squeeze on lime juice to taste. Serves 6.

Pink Onions

In a 2- to 3-quart pan over high heat bring 4 cups **water** and 3 tablespoons **vinegar** to a boil. Add 2 large **red onions**, thinly sliced, and push down into liquid. Return to a boil and cook, uncovered, for 2 to 3 minutes. Drain well; let cool.

In a large bowl, combine onions with 1 tablespoon **vinegar,** 2 tablespoons **salad oil,** 1 teaspoon **mustard seed,** ½ teaspoon **cumin seed,** and **salt** to taste. Cover and chill well. Transport in cooler. Makes about 2 cups.

Relishes

Choose at least 5 from this list: 3 medium-size **tomatoes,** chopped; 1 can (7 oz.) **diced green chilies;** 1 medium-size **cucumber,** chopped; 1 cup sliced **green onions** or diced onions; 2 cups (1 pt.) **sour cream;** 2 cups (8 oz.) shredded **jack** or Cheddar **cheese;** 2 **green bell peppers,** diced; 2 to 3 cups shredded **iceberg lettuce;** 2 **avocados,** peeled, pitted, diced, and mixed with 3 tablespoons **lemon juice;** and **bottled Mexican-style hot sauce** (red or green). Pack in individual containers and transport in a cooler. □

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Grandma's *deliciously simple French country berry tart: whole fresh strawberries standing in a crisp cooky crust and glazed with quince jelly*

DARROW M. WA

For a spring luncheon salad, *strawberry halves, cooked chicken, and sliced kiwi are enhanced by a lively fruit vinegar dressing*

French country tart and other strawberry temptations

Simple ways are often the best when it comes to enjoying the goodness of fresh strawberries. With very little effort you can create one of these tempting dishes: whole berries glazed in a tart; an entrée salad accented by red and green; and a low-calorie dessert.

Country Strawberry Tart

For the crust, combine 1⅓ cups **all-purpose flour,** 3 tablespoons **sugar,** and ½ teaspoon **ground cardamom** (optional) with ½ cup (¼ lb.) **butter** or margarine, cut into pieces. Whirl in a food processor or rub between your fingers until coarse crumbs form. Blend in 1 **egg yolk,** stirring or processing until dough sticks together. Press over bottom and sides of an 11-inch tart pan with removable bottom. Bake in a 300° oven until golden, about 30 minutes.

Wash and hull about 6 cups **strawberries.** Arrange berries over crust. In a pan (1 qt. or smaller) over low heat, stir ¾ cup **quince** or apple **jelly** until smooth and liquid. Spoon evenly over berries. Remove pan rim; cut into wedges. Serves 6.

Strawberry Chicken Salad Plates

- 4 cups cooked and skinned chicken, torn into bite-size pieces
- Fruit vinegar dressing (recipe follows)
- Butter lettuce leaves
- 2 cups strawberries, halved
- 1 or 2 kiwi, peeled and sliced

In a bowl, combine chicken and dressing. Cover and let stand about 1 hour (or chill overnight); stir several times.

To serve, line 4 individual plates with lettuce; place ¼ of the strawberry halves on each. With a slotted spoon, lift chicken from dressing; place ¼ of the chicken on each plate alongside berries. Garnish with kiwi slices and drizzle remaining dressing over fruit. Serves 4.

Fruit vinegar dressing. In a small bowl, stir together ½ cup **salad oil;** ¼ cup **strawberry,** raspberry, or cider **vinegar;** 2 tablespoons **sugar;** ½ teaspoon *each* **paprika, salt,** and **dry mustard;** and 1 finely chopped **green onion** (including green top).

Strawberries suspended *in clear grape juice gelatin are served in a goblet*

Shimmering Strawberry Goblets

- 2 cups white grape juice
- 1 envelope unflavored gelatin
- About 1½ cups halved strawberries
- Sweetened whipped cream

Place grape juice in 1½- to 2-quart pan. Sprinkle gelatin over the top and let stand about 5 minutes to soften. Heat, stirring, over medium heat until gelatin is dissolved. Chill just until mixture is the consistency of unbeaten egg whites, about 1 hour. Fold in berries, then spoon mixture equally into 4 stemmed glasses (about 1-cup size). Chill until set, at least 1 hour or overnight. Top with whipped cream. Serves 4.—*J. W., Seattle.* □

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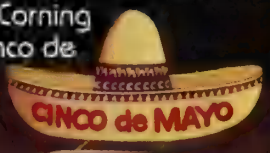

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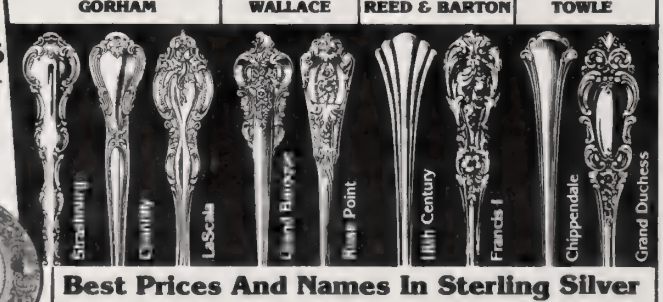

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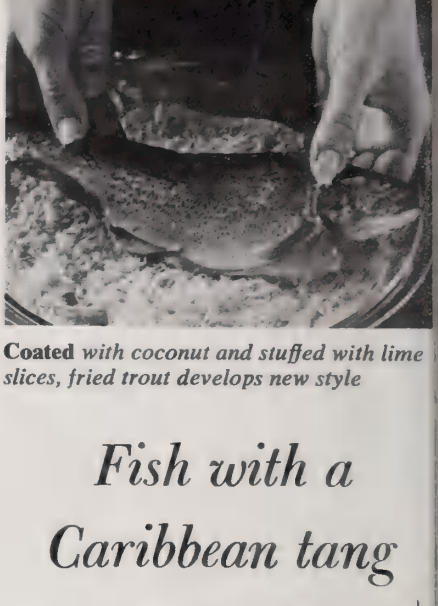

Coated *with coconut and stuffed with lime slices, fried trout develops new style*

Fish with a Caribbean tang

Coconut and lime juice in the coating o this Caribbean-inspired recipe give fis tang and subtle sweetness. Oven-fryin produces a crisp golden crust with moist interior.

The method works best with whol trout, or thick fillets or steaks. Choos fish with a mild flavor, such as rockfish turbot, or halibut.

Coconut Fried Fish

- 4 small whole trout (about 8 oz. *each*), or 2 pounds fillets or steaks, such as rockfish, turbot, or halibut, 1 to 1½ inches thick
- 5 tablespoons melted butter or margarine
- 2 tablespoons lime juice
- ⅛ teaspoon *each* salt and pepper
- 1 cup sweetened flaked coconut
- ½ cup fine dry bread crumbs
- 2 whole limes, ends trimmed and cut crosswise in ¼-inch slices (optional)
- 1 tablespoon *each* salad oil and butter or margarine

Wipe the fish with a damp cloth; set aside. In a shallow dish, combine melted butter, lime juice, salt, and pepper. In another dish, combine coconut and bread crumbs.

If fish is whole, brush cavity with butter mixture. Turn whole fish, fillets, or steaks in butter mixture, then in coconut mixture, to coat all sides; place side by side on waxed paper. Tuck lime slices inside whole fish, if desired.

Place oil and butter in a 12- by 17-inch baking pan or rimmed baking sheet and set in a 400° oven to melt; swirl to coat pan. Place coated fish in the pan and sprinkle each piece evenly with half the remaining coconut mixture. Bake for 4 minutes. Using a wide spatula, carefully turn fish; sprinkle evenly with remaining coconut. Bake 3 to 5 minutes more or until fish flakes easily when prodded in the thickest portion. Makes 4 servings. □

Recipe for Great Get-Togethers:

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Each of Hormel's great deli meats adds its own special flavor to party-time or snack-time. Many give you exciting recipe ideas on the package back. How to choose among them? Here are some hints:

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Hormel

A surprising salad idea: *Chinese fermented black beans with crumbled Gorgonzola and sliced tomatoes (right). Before using, rinse beans as shown below to remove excess salt*

NORMAN A. PLATE

New ways with Chinese black beans... with potatoes, pasta, cheese, celery root, spinach

Exotically flavored fermented black beans, with their pleasantly distinct aroma, are a popular seasoning element in Chinese cuisine.

Here we explore their use in some very non-Oriental ways, combining them with vegetables to go with meats and cheeses.

Fermented black beans (also called salted black beans) are a variety of soybean. They become pungent and slightly sweet during the tenderizing fermentation process, and they acquire an almost meat-like richness. After processing, they look and feel like dried currants, but they are coated with salt (you rinse off the salt before using).

Sold in plastic bags, cans, and small jars, these beans are inexpensive—less than 10 cents an ounce—and they keep well. Once opened, you can reseal a package and refrigerate it at least a year.

Tomatoes and Gorgonzola with Black Beans

- 3 large tomatoes, cored and sliced
- 1 tablespoon minced shallots or onion
- ⅛ teaspoon freshly ground pepper
- ½ cup (2 oz.) crumbled Gorgonzola cheese
- 2 tablespoons fermented black beans
- Watercress sprigs
- Olive or salad oil
- Red wine vinegar

Overlap sliced tomatoes on one end of a serving platter. Sprinkle with shallots and pepper. Mound Gorgonzola cheese alongside.

In a wire strainer, rinse black beans under cold running water; drain well. Mound beans next to cheese; garnish platter with watercress.

Offer with cruets of oil and vinegar. Let each person spoon a portion of the ingredients onto an individual plate and dress to taste with oil and vinegar. Makes 6 servings.

Black Beans and Pasta

- 1 package (8 oz.) vermicelli
- Water
- ⅓ cup olive or salad oil
- ⅓ cup white wine vinegar
- ⅛ teaspoon freshly ground pepper
- 1 pound bacon
- 3 tablespoons fermented black beans
- ⅓ cup chopped chives
- Salt
- Chive blossoms or additional chives

Cook vermicelli in 3 to 4 quarts boiling water until tender to bite, about 7 minutes. Drain in a colander and rinse under cold running water; drain well. Place pasta in a large bowl and mix with the oil, vinegar, and pepper; set aside.

Meanwhile, cut bacon into about 3-inch lengths. In a 10- to 12-inch frying pan cook bacon over medium heat until golden, 8 to 10 minutes, and drain on paper towel. Stir bacon into vermicelli.

In a wire strainer, rinse black beans under cold running water; drain well. Mix beans into vermicelli along with chives; salt to taste. Arrange on salad plates or serving platter and garnish with chive blossoms. Makes 4 to 6 servings.

Black Bean and Potato Salad

- 2 pounds thin-skinned small potatoes (about 2-inch diameter), scrubbed
- Water
- 2 tablespoons fermented black beans
- 3 tablespoons white wine vinegar
- 1 egg yolk
- 1 clove garlic, minced or pressed
- ⅓ cup olive or salad oil
- ½ cup lightly packed, coarsely chopped parsley
- ⅛ teaspoon freshly ground pepper
- Salt
- 6 to 8 thin slices Westphalian or baked ham

Cut away a band of skin around the middle of the potatoes. In a 3- to 4-quart pan, cover potatoes with water, bring to a boil, cover, and simmer until potatoes are tender when pierced, about 30 minutes; drain. While potatoes cook, rinse black beans in a wire strainer under cold

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NORMAN A. PLATE

Wreathed *with smoky Westphalian ham, potatoes are served dotted with pungent black beans and lightly bathed in vinaigrette*

running water; drain well and set aside.

In a medium-size bowl, whisk togethe vinegar, egg yolk, and garlic. Add th oil and whisk until blended. Stir in blac beans, parsley, and pepper. Pour ove warm potatoes and mix gently; add sa to taste.

Mound potatoes in center of servin platter and pour over any remainin dressing. Arrange ham around potatoe Makes 6 servings.

Black Beans on Celery Root

Water
½ cup distilled white vinegar
1 large (about 1½ lbs.) celery root
2 tablespoons *each* fermented black beans and lemon juice
⅓ cup olive or salad oil
3 or 4 butter lettuce leaves
1 small red onion, thinly sliced
4 to 6 lemon wedges

Combine 2½ cups water and the vinega in a 3- to 4-quart pan. Peel celery roo cut into ⅛-inch julienne sticks, and a once add to water-vinegar mixture Bring mixture to a boil over high hea then reduce to medium and cook unt celery root is tender to bite, about 4 min utes; drain and pour into a bowl.

In a wire strainer, rinse black bean under cold running water; drain wel Stir black beans into celery root alon with lemon juice and oil; chill. Arrang lettuce and onion slices on one side of serving platter, then mound celery roo mixture onto platter and garnish wit lemon wedges. Makes 4 to 6 servings.

Black Beans and Spinach Slivers

2 tablespoons fermented black beans
Water
1 pound spinach
⅔ cup (about 3 oz.) coarsely crumbled feta cheese
¼ cup olive oil
1 tablespoon lemon juice
⅛ teaspoon freshly ground pepper
Salt
About 8 thin lemon slices

In a wire strainer, rinse black bean under cold running water; drain well an set aside.

Pinch spinach leaves from stems; wash leaves well and drain thoroughly. Selec about 6 large spinach leaves and fan then at one end of a serving platter. Thinly sliver remaining leaves and mix with black beans, cheese, oil, lemon juice, an pepper; add salt to taste. Mound spinach mixture onto leaves and garnish with lemon slices. Makes 4 servings.

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IN APPLE BARS

1½ cups Nature Valley® Granola (any flavor), crushed
1 cup Gold Medal® all-purpose flour
½ cup sugar
Glaze
½ cup margarine or butter, softened
1 egg
1 tsp. vanilla
½ tsp. baking powder
¼ tsp. salt
¼ tsp. ground cinnamon
¼ tsp. ground nutmeg
¼ tsp. ground ginger
1 large apple, pared and chopped

Heat oven to 375°. Grease square pan, 8x8x2 inches. Mix all ingredients except apple and Glaze; reserve 1 cup dough. Spread remaining dough in pan. Arrange apple over dough in pan. Drop reserved dough by rounded teaspoonfuls onto apple; spread slightly. Bake until golden brown and wooden pick inserted in center comes out clean, 25 to 30 minutes; cool. Drizzle with Glaze. Cut into bars, about 2x1¼ inches. 2 dozen bars.

Glaze: Beat ½ cup powdered sugar, ½ teaspoon grated lemon peel and 2 to 3 teaspoons lemon juice.

High Altitude Directions (3500 to 6500 feet): Heat oven to 400°. Decrease sugar to ⅓ cup.

AND OTHER GREAT RECIPES

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TERI SANDISON

Lemon-tarragon ice, *served in scooped-out lemon halves with leaf garnish, makes cooling relish for chicken*

Lemon-tarragon ice, tomato ice, lime-mint ice . . . these are tart and refreshing herb *granités*

Scrape chunks *of frozen mixture into mixer bowl, beat until slushy and smooth, and then refreeze*

Tomato ice, *flavored with fresh coriander, is served in tomato half with prawns as first course*

Tart and refreshing, these three herb-flavored granités, or coarse-textured ices, are delightful accompaniments to meats or fish. View them as a relish in deciding when and how to serve.

Granités are simple to make and keep well for several weeks in the freezer.

To introduce the intensity of flavor desirable for an ice, you boil fresh or dried herbs in a vinegar or citrus juice base. This infusion is reduced by half, and the liquid is frozen. To achieve spoonable texture, you then beat the ice to a slush and refreeze.

The first granité, a blend of tarragon and lemon, goes well with chicken. The lime-mint ice suits charcoal-grilled lamb, while the tomato-coriander combination makes a cool companion for prawns or roast beef.

For attractive containers that keep ser ings of granité cold longer at the tabl use frozen scooped-out citrus shells small dishes chilled in the freezer.

Lemon-Tarragon Granité

In a 5- to 6-quart pan, combine 2 cu **water,** 1 cup **lemon juice,** ¼ cup **suga** and 2 tablespoons packed **tarragon leav** (or 1 teaspoon dry). Bring to a boil high heat and cook until reduced by hal Pour through a fine wire strainer into shallow metal pan (9 inches square larger); tint a pale **yellow** with **food co oring,** if desired. Let cool; then freez

Bernstein Introduces New Ways To Shake Up Italians.

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Nobody, but nobody, lets these dressings pass without comment.

People who ordinarily pick at their salads will eat with Italian gusto.

And gourmets will beg for your secret.

But find out for yourself. Try an ordinary Italian dressing and a Bernstein side by side.

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HOT NEWS!

Chicken Mexicana from Valley Fresh!

Tostadas pronto!
Enchiladas pronto!
Pronto!
Tacos, muy pronto! Olé!

Valley Fresh Chicken Mexicana makes your favorite dishes easier and tastier! Farm fresh chicken in an authentic Mexican sauce — economical in the big 12½ ounce can. Stuff it in tacos, roll it in enchiladas, build a cheese crested tostada with Chicken Mexicana — new from Valley Fresh!

POLLO TOSTADA

1. Heat one can Valley Fresh Chicken Mexicana in skillet. Drain 1 can (15 oz.) red kidney beans.
2. Fry 6 (10-inch) flour tortillas one at a time in ¼ inch hot oil (375°) 20 to 30 seconds on each side or until crisp and golden brown. Drain on paper towels.
3. Layer each tortilla with shredded lettuce, grated cheddar cheese, kidney beans, tomato wedges, chopped onion and Chicken Mexicana.
4. Top with sour cream, wedges of avocado and sweet olives.

Also try Valley Fresh Chunked Chicken, White Chunked Chicken and Chicken Sandwich Mix.

TERI SANDIS

Lime-mint ice, *spiked with green onion, goes with lamb chops, carrots*

uncovered, until solid, about 2 hours.

With a metal spoon, break into chunk and drop into a large mixer bowl. Bea starting on low speed, until slushy Spoon into a container, cover tightly, an freeze until solid, about 1 hour. Serve, o store up to 2 weeks; let soften slightly a room temperature and scrape out po tions. Makes 6 to 8 servings.

Lime-Mint Granité

In a 5- to 6-quart pan, combine 2 cup **water,** ¾ cup **lime juice,** ¼ cup packe **mint leaves** (or 4 teaspoons dry), and ½ cup **sugar.** Bring to a boil on high hea and cook until reduced by half. Pou through a fine wire strainer into a sha low metal pan (9 inches square or larger tint a pale **green** with **food coloring** desired. Stir in 2 tablespoons finel chopped **green onion.** Cool; freeze, un covered, until solid, about 2 hours.

With a metal spoon, break into chunk and drop into a large mixer bowl. Bea starting on low speed, until slushy Spoon into a container, cover, and freez until solid, about 1 hour. Serve, or stor up to 2 weeks; let soften slightly at roo temperature and scrape out portion Makes 6 to 8 servings.

Tomato-Coriander Granité

In a 5- to 6-quart pan, combine 2 cup **water,** 1 cup **white wine vinegar,** and ½ cup packed **coriander leaves** (cilantro Bring to a boil on high heat and coo until reduced by half. Pour through fine wire strainer into a shallow meta pan (9 inches square or larger). Whirl can (14½ oz.) **stewed tomatoes** in blender or food processor until smoot and stir into vinegar mixture. Freeze, un covered, until solid, about 2 hours.

With a metal spoon, break into chunk and drop into a large mixer bowl. Bea starting on low speed, until slushy Spoon into a container, cover, and freez until solid, about 1 hour. Serve, or stor up to 2 weeks; let soften slightly at roo temperature and scrape out portions Makes 6 to 8 servings.

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The Louis Rich Life

Turkey à la Orange

- 1 package (about 1 lb.) Louis Rich™ Fresh Turkey Breast Slices
- 1 T. butter
- 2 T. firmly packed brown sugar
- 4 tsp. cornstarch
- 1 cup orange juice
- 1 T. lemon juice
- 1 T. butter
- 4 orange slices, cut in half

In skillet, melt butter over medium heat. Add breast slices. Brown 3 minutes. Turn. Brown 2 minutes. Remove to platter. Cover. In skillet, combine sugar and cornstarch. Add juices and butter. Cook over medium heat, stirring until sauce boils. Garnish with orange slices, serve with sauce. Makes 1 cup sauce, 4 servings.

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DAVID STUBB

Egg slices *brighten steamed chunks of potatoes baked in vinaigrette dressing*

Hot salad from the oven

Round out dinner menus with this tangy hot oven-warmed potato salad. It goe nicely with sausages, broiled chicken, o juicy hamburger patties.

Oven Potato Salad

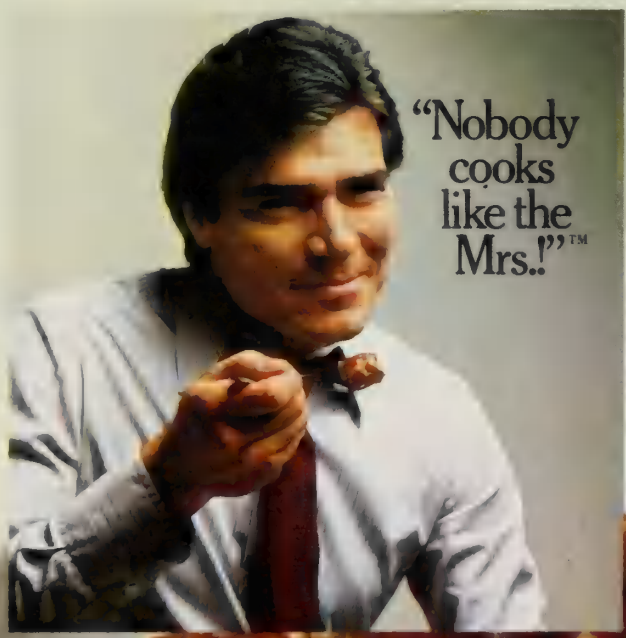
- 8 small (about 2 lbs.) thin-skinned red potatoes
- 6 slices bacon
- ¾ cup *each* chopped green onion (including tops), green pepper, and celery
- 1 can (10½ oz.) chicken gravy
- ¼ cup mayonnaise
- ⅓ cup white wine vinegar
- 2 tablespoons Dijon mustard
- 1 tablespoon sugar
- 1 teaspoon celery seed
- 2 hard-cooked eggs, sliced
- Salt
- Chopped parsley

Cut the potatoes (peeled, if desired) int ½- to 1-inch chunks and place on a rac in a steamer. Cook, covered, over boilin water until tender when pierced, 10 to 1 minutes; let cool. Cook bacon in a 10- t 12-inch frying pan on medium heat unti crisp; drain and reserve 2 tablespoon drippings. Crumble bacon and put wit potatoes, green onion, green pepper an celery in a shallow ungreased 3-quar casserole.

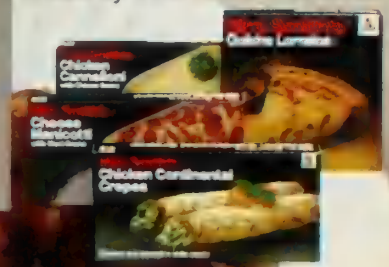
In a small bowl, stir together reserve drippings, gravy, mayonnaise, vinegar mustard, sugar, and celery seed. Pou evenly over potato mixture and sti gently to mix well. (If made ahead, yo can cover and chill as long as overnight.

Bake, uncovered, in a 400° oven unti bubbly, for about 20 minutes (if chilled allow about 35 minutes). Garnish ho salad with egg slices and parsley. Indi vidually season with salt. Makes 5 or 6 servings.—*D. S., Sacramento.*

Now nobody makes manicotti like Mrs. Smith's.



Now you can have a great Italian dinner from Mrs. Smith's. Like her Cheese Manicotti. It's made with creamy ricotta cheese. Tender pasta. And a thick, zesty meat sauce. It's delicious. And it's just one of five new manicotti and cannelloni entrées. Try 'em all. And try Mrs. Smith's™ quiche and crepes too. Nobody cooks like the Mrs.!™



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Delightful Stuff.

Here are all the credentials you need to be an Italian chef. Two cans of thick, rich Golden Grain Marinara Sauce. One package of Golden Grain's exclusive favorite—Stuff-a-Roni.® Oh, there are some other items in the recipe, but these really make the difference. Delightfully distinctive.

Mama De Domenico's Delightful Stuffaroni

1/2 lb. Italian sweet sausage
2 cans (15 oz. each) GOLDEN GRAIN Marinara Sauce
1/2 cup water
1 cup (8 oz.) ricotta or cottage cheese
1/4 cup grated Parmesan cheese
1/2 cup grated Monterey Jack cheese
1 egg
1/4 cup chopped salami slices
2 Tbsp. chopped green pepper
1 pkg. GOLDEN GRAIN Stuff-a-Roni

1. Remove casings from sausage; brown. Add Marinara and water; heat to boil.
2. Combine ricotta, Parmesan, Jack cheese, egg, salami, green pepper.
3. Fill uncooked Stuff-a-Roni with cheese mixture; arrange in single layer in 2 qt. baking dish. Top with sauce.
4. Cover with foil, bake at 375°, 1 hour. Serves 4

NORMAN A. PLA

Temptation *awaits in three-layer brownie*

Brownie that warn dieters beware

Gilding the lily may not be good taste i art, but for a brownie the standards a different. Dieters beware: here you bak a nut-laden cooky, smooth an uncooke butter cream on top, then flow a thi chocolate icing over all.

Triple-layered Brownie Squares

- 2 squares (1 oz. *each*) unsweetened chocolate
- ¾ cup (⅜ lb.) butter or margarine
- 1 egg
- ½ cup granulated sugar
- ¼ cup all-purpose flour
- 1 cup chopped almonds or pecans
- 2 cups unsifted powdered sugar
- ½ teaspoon vanilla
- 2 to 3 tablespoons whipping cream

For the first layer, combine 1 square c the chocolate with ¼ cup of the butt in the top of a double boiler. Stir ov hot (not boiling) water until melted.

In a small mixer bowl, beat the egg an sugar, then slowly beat in chocolate mi ture. Stir in flour and nuts. Scrape int a lightly buttered 9-inch-square pa Bake in a 350° oven until brownie fee dry on top, about 20 minutes; cool.

For the second layer, cream together ½ cup of the remaining butter, the pow dered sugar, vanilla, and enough crea to make mixture spreadable. Sprea evenly over brownie.

For third layer, combine remainin chocolate and butter in the top of double boiler and stir over hot (not boi ing) water until melted. Drizzle ov cream layer and tilt pan so chocolat covers white surface evenly. Chill un top is set, about 10 minutes. Cut into 2 inch squares. Makes 16.—*A. C., Sa Francisco.*

EXPERIENCE LAMB

An ordinary shish kabob made extraordinary with fresh American lamb. Tenderness with taste. The elegant addition to an international favorite. Experience Mideast Mystique lamb shish kabobs. Marinate 2 pounds of 1" lamb cubes overnight in 1/3 cup each lemon juice, olive oil, and onion, 1 garlic clove minced, 1 teaspoon savory and 1/2 teaspoon salt. Skewer lamb and vegetables. Broil, brushing with marinade.

lamb FRESH AMERICAN

American Lamb Council

DAVID J. PAVOL

DARROW M. WA

Assortment *of charcoal-grilled sausages makes Memorial Day outdoor-party menu Serve on rolls with baked sauerkraut, a selection of mustards and relishes, sliced vegetables with a favorite dressing*

MAY MENUS

You-adjust-the-size sausage barbecue, Italian dinner for 12, supper-brunch for the family

Family foods that quickly dress up for entertaining—these are at the heart of our three practical menus for May.

The first is a barbecue, ideal for Memorial Day weekend; you can adjust it to serve 10 to 30 with a minimum of plan shifting. Most of the foods are purchased; the one casserole you cook can easily be multiplied.

The second menu is a three-course dinner for 12. It's much simpler to put together than you might think. Start with hot pasta to combine with one or more of three toppings. Follow with roast chicken, accompanied by a big green salad and sourdough bread. For dessert, there's a handsome, make-ahead ricotta cheesecake that's speckled with candied glacé fruit.

And for a quick, light brunch or supper, try ramekins of delicately seasoned corn with poached eggs and sauce.

Sausage and sauerkraut part for 10, 20, or 30

Set up the meal buffet-style, with pu chased fully cooked sausages to heat o the barbecue. To make the party pa tially potluck, you could ask guests bring pastries; otherwise, buy a selectio at a bakery.

Cooked Sausages to Grill
Baked Sauerkraut with Juniper Berries
Sliced Vegetable Platter
Assorted Mustards
Mayonnaise Catsup Dill Pickles
Crusty Rolls Butter
Pastry Sampler of Coffee Cakes and Tort

Do your shopping the day before. Se eral hours before guests are due, assem ble the casserole, set up the buffet, g barbecue ready to fire up, and slice an dress the vegetables.

Just before guests arrive, start the ba becue and put cold foods on the tabl When cooking starts, bring the saue kraut hot from the oven.

For each serving, you'll need 1 or fully cooked sausages; choose Polis (kielbasa), knackwurst, old-fashione frankfurters, or bratwurst. One recipe o the sauerkraut serves 10; to make mor use a larger casserole and allow mo cooking time. For the vegetable platte you'll need about 1 cup sliced vegetabl per serving; arrange a combination suc as tomatoes, mild onions, cucumber and avocados on a large tray and moiste with prepared Italian-style salad dressin or a favorite oil-and-vinegar dressing.

Each 9- to 10-inch cake will average 6 t 8 servings. If you cut slices smaller tha

Enjoy the first cup.
Anticipate the second.

Yuban.® Richness worth a second cup.

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If the lettuce is real, the zucchini is real, the eggs are real, the cheese is real, the tomatoes are real, then shouldn't the bacon on top be real, too?

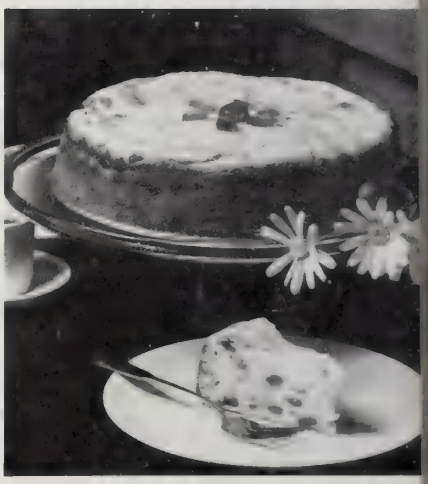
Hormel Bacon Bits are 100% real bacon. Lean and smoky. And delicious on practically everything.

So if you cook with real ingredients, don't stop when you get to the top.

Hormel Bacon Bits 100% real bacon.

NORMAN A. PLATE

Try an Italian dinner *for company: serve spaghetti to top with mushrooms, garlic-parsley, and cheese along with roast chickens, green salad. Dessert (below) is ricotta cheesecake with candied fruit*



usual, guests can feel relaxed about sampling more than one kind.

Baked Sauerkraut with Juniper Berries

Cut 4 to 6 slices **bacon** into 2-inch lengths; cook in a 10- to 12-inch frying pan over medium heat until browned. Pour bacon and drippings into a 2-quart casserole. Rinse and drain 2 cans (1 lb. *each*) **sauerkraut** and add to bacon along with 2 tablespoons **juniper berries;** mix well and cover tightly. Bake in a 350° oven about 1 hour. Serves 10.

For 20 servings, double recipe and use a 3-quart casserole; bake 1½ hours.

To make 30 servings, triple recipe and use a 4-quart casserole; bake for 2 hours. —*L. P., Santa Ana, Calif.*

Italian dinner for 12

Start with pasta, then pass chicken and salad to eat from the same plate.

Spaghetti with Three Toppings
Roasted Chickens Green Salad
Sourdough Bread
Italian Ricotta Cheesecake
Dry Table Wine (White or Red)
Espresso Coffee

As early as the day before, bake the cheesecake. Three chickens (3- to 4-lb. size) will serve 12. Roast and serve hot or cold. While water to cook the pasta comes to a boil, prepare toppings.

Spaghetti with Three Toppings

Water
¾ cup (⅜ lb.) butter or margarine
2 pounds mushrooms, sliced
½ cup olive oil or salad oil
16 cloves garlic, peeled and sliced
2 cups minced parsley
2 cups freshly grated Parmesan cheese
2 pounds spaghetti

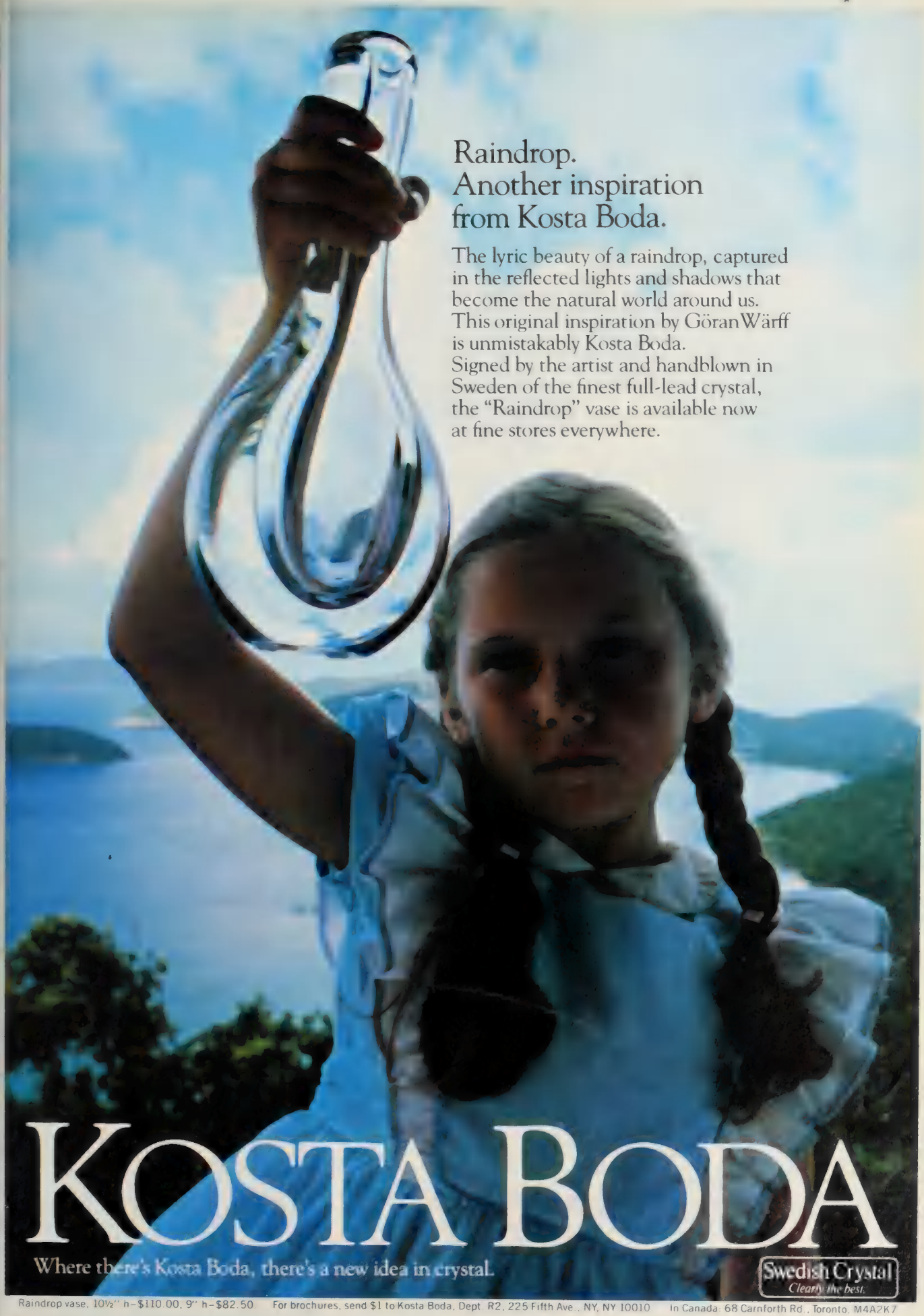
Fill a 10- to 12-quart kettle ⅔ full wi water; cover and bring to boil over hig heat. As water heats, melt ½ cup of th butter in a 10- to 12-inch frying pan. Ad mushrooms; cover and cook on mediun high heat, stirring occasionally, just un mushrooms get juicy. Uncover and coo on high heat, stirring, until liquid is com pletely evaporated; pour into a sma dish and keep warm.

To pan, add ¼ cup of the oil and th garlic. Cook on medium heat, stirrin until garlic is golden; take care not t scorch. Stir in parsley and pour into small dish; keep warm.

Put cheese in a small serving dish.

Add spaghetti to boiling water and st often; cook, uncovered, until tender t bite, 12 to 15 minutes. Drain and pou into a large serving bowl; mix in remain ing butter and oil.

Lift portions of pasta onto individua



Raindrop vase, 10½" h–$110.00, 9" h–$82.50 For brochures, send $1 to Kosta Boda, Dept. R2, 225 Fifth Ave., NY, NY 10010 In Canada: 68 Carnforth Rd., Toronto, M4A2K7

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BRACH'S

The candy store candy

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plates and top, as desired, with mus rooms, garlic-parsley, and cheese. Mak 12 generous servings.—*D. C., Live more, Calif.*

Italian Ricotta Cheesecake

Heavily **butter** a 9-inch cheesecake p with removable bottom; dust with **sug** and set aside.

In the small bowl of an electric mix whip 4 **egg whites** until they hold s peaks; set aside. In the large bowl, co bine 1 quart (4 cups) **ricotta cheese,** tablespoon grated **lemon peel,** 1 c **sugar,** and 8 **egg yolks.** Beat on mediu speed to blend. Blend in 1 cup **all-pu pose flour.** By hand, stir in 1 cup *ea* **raisins** and chopped mixed diced **candi (glacé) fruit.** Stir ¼ of the egg whit into batter; blend well. Gently fold remaining whites. Scrape batter into pr pared pan.

Bake in a 350° oven until center appea firm when pan is shaken, about 1 hou Cool in pan on wire rack. Serve at roo temperature, or cover and chill as long overnight. Remove pan rim. Serves 12.

Supper or brunch for family or friends

Fresh corn is preferable for this quic main dish, but you can use frozen whol kernel corn as an alternative.

Poached Eggs with Sautéed Corn and Hollandaise Sauce
Whole-wheat Toast Triangles
Fresh Strawberries Powdered Sugar

Allow about 30 minutes for preparatio cook the corn and keep it warm on lo heat as you poach the eggs and make speedy blender hollandaise sauce.

Poached Eggs with Sautéed Corn and Hollandaise Sauce

- ¼ cup (⅛ lb.) butter or margarine
- 4 cups fresh corn (about 4 ears) cut from the cob, or 2 packages (10 oz. *each*) frozen whole-kernel corn
- 1 medium-size onion, chopped
- ½ teaspoon tarragon
- 6 to 12 hot poached eggs
- Hollandaise sauce (recipe follows)

Melt butter in a 10- to 12-inch fryin pan and add corn, onion, and tarragon Cook on medium heat, stirring, unt onion tastes cooked, about 10 minutes.

Divide corn equally among 6 shallo ramekins (1- to 1½-cup size); using spoon, make an indentation in the cen ter of each. Set 1 or 2 poached eggs o top and pour hollandaise sauce ove each. Serves 6.

Hollandaise sauce. Whirl in a blender **egg yolk,** 1 tablespoon *each* **water** an **white wine vinegar,** and 1 teaspoo **Dijon mustard.** On high speed, slowl add ¾ cup (⅜ lb.) foaming hot melte **butter.** Serve at once.

And you thought Bisquick only made pancakes.

Strawberry Shortcake

Reddi-Wip® real cream topping is the crowning touch to this classic Bisquick® dessert.

- 1 quart strawberries, cut into halves
- ½ cup granulated sugar
- 2⅓ cups Bisquick® baking mix
- 3 tablespoons granulated sugar
- 3 tablespoons margarine or butter, melted
- ½ cup milk
- 1 tablespoon margarine or butter, softened
- ¼ cup packed brown sugar
- ¼ cup slivered almonds
- Reddi-Wip® real cream topping

Heat oven to 425°. Mix strawberries and ½ cup granulated sugar; reserve. Mix baking mix, 3 tablespoons granulated sugar, 3 tablespoons margarine and the milk until soft dough forms. Spread in ungreased round pan, 8x1½ inches. Spread with 1 tablespoon margarine; sprinkle with brown sugar and almonds. Bake until golden brown, 15 to 20 minutes. Remove from pan; cool 10 minutes. Split layer horizontally. Place bottom layer on serving plate. Top with half of the strawberries and a layer of real cream topping. Top with other layer and the remaining strawberries. Garnish with additional cream and whole strawberries. 6 to 8 servings.

High Altitude Directions (3500 to 6500 feet): Heat oven to 450°. Use round pan, 9x1½ inches. Bake about 15 minutes.

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Look *for saffron threads in shops that sell bulk herbs and spices*

NORMAN A. PLA

Saffron-flavored baste *gives distinctive accent to lamb, pilaf, and pan juices. Orange and mint complement*

Instead of saffron . . . "saffron-threads"

The spice sold as "saffron threads" actually dried flowers of the safflow plant, grown mainly in Mexico. Saffr threads, though used in much larg quantities than genuine saffron, are a inexpensive substitute and contribu similar earthy flavor and color. (U about 2 tablespoons of saffron threads place of a pinch of real saffron.)

To coax maximum flavor and color fro the threads, pulverize them with a litt sugar, then blend in boiling water.

Here we use the liquid to baste lamb ar flavor a pilaf. The touch of fresh orang juice also brings out the sweet, saffro like flavor.

Saffron Threads with Lamb and Pilaf

- 5- to 6-pound leg of lamb
- 8 small cloves garlic
- Saffron baste (directions follow)
- ½ cup (¼ lb.) butter or margarine
- 1 cup long-grain rice
- 3½ cups regular-strength beef or chicken broth
- 1 large orange, cut in half
- Mint sprigs

Cut 8 gashes in fat of lamb and poke clove of garlic down into each. Set lam fat side up, in a 9- by 13-inch bakin pan. Bake in a 325° oven, basting ofte with half the saffron baste, until thicke part of roast registers 140° for rare on meat thermometer, 1⅔ to 2 hours.

About 30 minutes before lamb is done melt butter in a 10- to 12-inch fryin pan. Add rice and stir on medium-hig heat until rice is lightly browned. Ad remaining saffron baste and 3 cups o the broth. Bring to a boil, reduce hea cover, and simmer until rice is tender t bite, about 25 minutes.

Transfer lamb and pilaf to a platter Skim fat from juices and add remainin ½ cup broth. Bring to a boil, stirring t scrape browned bits free. Pour into small dish. Garnish lamb with orang and mint. Slice roast and squeeze orang juice over meat and rice. Accompan with pan drippings. Makes 7 to 8 serv ings.—*F. R., North Highlands, Calif.*

Saffron baste. Mash to a fine powder tablespoon *each* **saffron threads** an **sugar;** stir in 2 cups boiling **water.**

snappy

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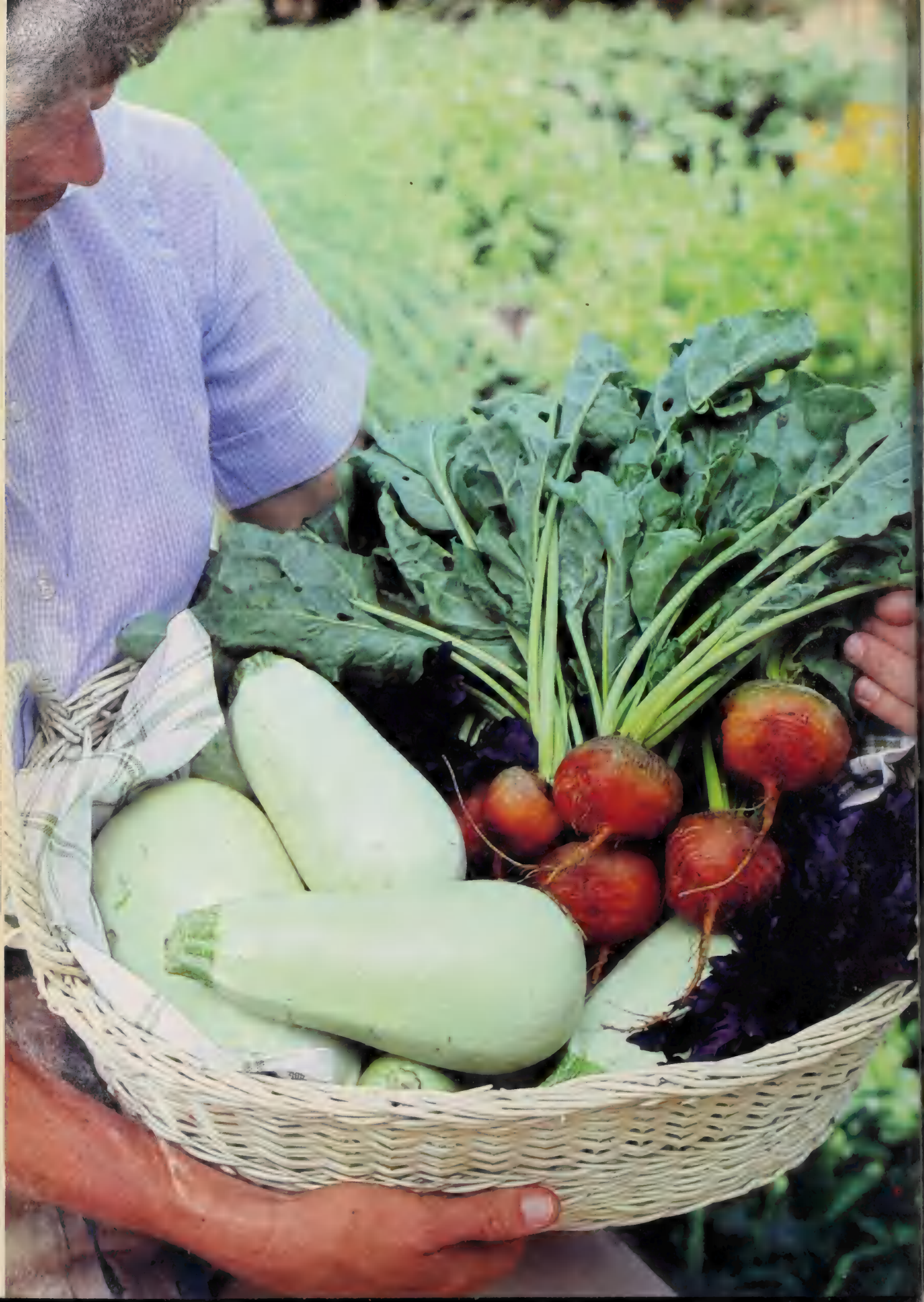

MAY IN YOUR GARDEN:

Can you keep up with May? It's time for planting, feeding, weeding, watering, flower-admiring

Iay is an action month for gardens and ardeners. Roses and rhododendrons ut on their best show of blooms, many erennials are flowering, and spring anuals are at their peak of color. You'll eed to move fast to keep up with waterg, feeding, and grooming chores. Ieanwhile, nurseries are filled with flats f summer bedding plants, and vegetae seedlings; well-stocked seed racks fer more planting enticements.

arly spring feeding of deciduous fruit ees not as effective as expected

ven if you fed deciduous fruit trees in rly spring when buds started to swell, ou should consider giving them another plication of fertilizer now. Recent udies at the University of California at avis indicate that these trees absorb ry little nitrogen when fertilizer is apied in the early spring.

the study, prune trees were carefully onitored to determine how much nitron they absorbed. The "nitrogen abrption efficiency" was 4 percent in arch (when buds were swelling), rose 30 percent in April (when shoots were owing rapidly), and peaked at 39 pernt in May (after leaves had developed). pply fertilizer at the drip line; work it o the soil to help reduce nitrogen loss rough leaching and evaporation.

proved white marigold? could be 'Snowbird'

e breakthrough in propagating a ite marigold came in 1975 when Burpee Seeds awarded a prize to the developer of the first white bloom at least 2½ inches in diameter. Later, seeds became available; they were sold under the name 'Burpee's Best Whites'. These were a mixture of white and nearly white kinds that varied in height, flower size, and time of bloom.

Now Burpee is offering a new marigold: 'Snowbird' has 2½- to 3-inch flowers with more consistent white color. Plants are more uniform in height, reaching about 18 inches tall. White marigold fans who have grown 'Snowbird' report that this variety is an improvement, though some blooms have slightly greenish bunchy centers and plants still tend to be somewhat lanky.

To obtain seeds of 'Snowbird', write for a catalog from Burpee Seeds, Warminster, Pa. 18974. A packet of 50 seeds costs $1.45, two for $2.45.

Get pokey seeds off to a quicker start with this burlap bag trick

One *Sunset* reader wrote to us with this idea for getting slow-sprouting seeds, such as beets and parsley, to germinate more quickly.

Directly atop the soil over the beds or rows of just-planted seeds, place a burlap bag or single thickness of burlap cloth. Tack down the ends with U-shaped pieces of wire or weight them down to keep the cloth from blowing off. The porous burlap lets water pass through easily, but prevents the seeds from getting washed out or buried too deeply. It also prevents seedbeds from drying out too quickly on hot, sunny days.

Check frequently underneath the burlap; remove it as soon as the first seedlings show. It you leave it on only a day too long, seedlings will pop through.

Kitchen scraps don't have to stink up your compost pile

Gardeners who add kitchen scraps to their compost heap sometimes have problems with unpleasantly rich aromas. This is particularly true when the weather warms up. Leo Kibby of Saratoga, California, reports that any time he adds wet scraps to his pile, he spreads the material out thinly. Then he covers the wet layer with dry material (such as leaves or grass clippings). This ensures that sufficient oxygen will reach the scraps to help speed their decay and reduce odors.

But note: some of northern California's suburban neighborhoods are now infested with roof rats (*Rattus rattus*), who raid compost piles for such refuse. If you live in an infested area, *do not* add kitchen scraps to your compost; put them in sealed garbage cans or grind them up in your disposal unit.

Pumpkin-growing success: it's time to plant a prizewinner

The beachball-size pumpkin pictured on the next page won first place at the Butte County Fair last year for its proud owner, 11-year-old Morgan Price of Oroville, California. Since he had followed the pumpkin-growing advice on page 262

Sunset's GARDEN GUIDE

Special information for high elevations, page 260

olden as a beet?

en beets, white zucchini, and 'Dark Opal' basil may seem to contradict les for gardening, yet those three (shown in the basket on ite page) are just a few of the unusually colored vegetables you lant this month.

's include purple-pod snap beans, white carrots, yellow and white ants, yellow and white tomatoes, yellow watermelon, and golden ini. Though you would plant them mostly for the novelty, some offer flavor variations: white zucchini has a mild, nutty flavor; purple basil t stronger than its green cohort; golden beets, on the other hand, bout the same. Tasters consider the purple snap beans better reen (although both are green when cooked). For all vegetables, ng directions are the same as for varieties in the original colors.

Sunset's GARDEN GUIDE

JEFF FEETER

Pumpkin prizewinner *Morgan Price shows off his 120-pound 'Big Max'—and its county fair ribbons*

of the May 1981 *Sunset*, he shared his 120-pound achievement with us.

Morgan chose a large variety ('Big Max'). To cope with hard clay soil, he dug an extra-large hole (3 feet deep and as wide). He refilled it with a mixture of ½ potting soil, ¼ garden soil, and ¼ well-rotted horse manure. He planted five seeds ½ inch deep, spaced in a 12-inch circle. Later, he thinned out all but the strongest vine.

When the pumpkins were 5 to 7 inches in diameter, Morgan removed all except the best two. He slipped a thin board under each to protect them from rotting. He then pinched out the growing tips of the vine and continued to remove all new blossoms and new pumpkins. Diligent watering and another dose of manure in July led to his prizewinner.

Northern California oaks are under attack by fungus

Recently, researchers from the University of California at Berkeley investigated reports of oaks suffering dieback in the Napa Valley. They discovered that many were under attack by various fungus. Chief among these was *Diplodia quercina*, but other kinds were also implicated. These fungus maladies now seem to be attacking oaks in other areas of northern California, too.

Principal trees under attack are coast live oak (*Quercus agrifolia*), blue oak (*Q. douglasii*), California black oak (*Q. kellogii*), valley oak or California white oak (*Q. lobata*), and English oak (*Q. robur*).

Symptoms first appear on small branches, with wilting and browning of leaves. Later, bark of affected branches may be roughened by tiny swellings produced by the fungus tissue as it pushes up beneath the bark. Trees with severe cases can lose larger branches, and they may eventually die.

What can you do if your oak suffers from this problem? Researchers don't understand the dieback completely, so they cannot recommend a spraying program. But they suggest that you cut off affected branches to prevent the spread of fungus spores. Be sure to cut at least a few inches into the healthy white wood when removing a branch with dying leaves. (Diseased wood has a brownish cast.) Disinfect your cutting tool between cuts by dipping it into a solution of 1 part household bleach and 10 parts water. Since the bleach solution is corrosive, wash off equipment before storing.

Prickly blue balls of bloom for unusual flower arrangements

With big saw-toothed leaves and gangly 3- to 4-foot-high stalks, globe thistle (*Echinops exaltatus*) cannot claim to be an elegant-looking perennial. But its prickly blue flower clusters, spreading 2 inches across, give the plant a unique, striking appearance.

Wendy Brown of Chico, California, discovered that these flowers (shown at right) thrive in her garden and make attractive arrangements. They hold their color after cutting, as well as later when dried. She grows 'Taplow Blue', whose blooms have a clear steel blue color.

You can buy divisions of globe thistle at some nurseries; or purchase them through a mail-order nursery that sells perennials (see page 119 of the November 1981 *Sunset*). Plant them in a sunny spot in well-drained soil. Once established, they can get by on minimal watering. Plants often need staking. Divide crowded plants about every four years (it's not an easy job because of their thick roots).

Globe thistle can also be started f m seed, but seedling color tends to be n- predictable: they might not yield he shade of blue you wish.

Share your garden with Sunset

We want to hear about—and see—y r garden achievements. Have you solv problem with a new technique? Are u experimenting with different plants? Do you have a beautiful garden of flowers, vegetables, or permanent plants? We n- vite you to enter *Sunset's* 1982 Gar n Contest.

Send a brief description of your gar n along with your name, address, and y- time telephone number, to 1982 Gar n Contest, *Sunset Magazine*, Menlo P k, Calif. 94025. Include six snapshot or color slides of your garden at its st (pictures from recent years are fine).

If your garden is at its photogenic pr e now, call us collect at (415) 324-5-1 We'll try to get a scout out for a lo k. Who knows? You may win a mo s prize, earn a certificate, or even see y r own garden in *Sunset*.

Sawdust over plastic smothers weeds between raised beds

When weeds threatened to gain the p per hand over vegetables in their stru for nutrients and water, Tamie Do

Globe thistle *(Echinops exaltatus), growing here in Chico garden, has steel blue flowers fine for arrangements*

Aptos, California, decided it was time act. To keep her garden looking neat ıd also to cope with its heavy clay soil, ıe constructed raised beds (shown at ght); landscaper Jeff Rosendale helped ith the design. She amended the soil in ıch bed with fertilizer and compost.

ɔ stifle the weeds, she covered the paths etween the beds with sheets of heavy ack plastic (available from garden sup- y centers and nurseries). To disguise e plastic, she covered it with sawdust stead of the more traditional gravel or ırk chips. She likes the sawdust's tawny ılor and its softness underfoot.

ıe sawdust has come through two wet nters without problems. It tends to ıck down with time, so Ms. Dolwig lds about five wheelbarrows of fresh wdust each spring.

ɔu can get sawdust at some garden sup- y centers, or check in the yellow pages ıder Sawdust and Shavings. □

DARROW M. WATT

Sawdust atop black plastic *makes an effective weed barrier on paths between raised beds*

MAY CHECK LIST: *Much to do in midspring*

☐ **Care for roses.** To keep blossoms coming, cut plenty of long-stemmed flowers and remove all spent flowers. To get roses back in gear for another period of bloom after their May show, give plants a dose of fertilizer.

☐ **Control plant damagers.** Aphids can cause considerable damage to new growth on many plants—some of their favorites are camellias, citrus, roses, and fruit trees. A blast of water from the hose will knock off many aphids. A soap spray (2½ to 5 tablespoons of liquid soap or detergent mixed with 1 gallon of water) will keep populations down. To make sure soap won't burn foliage, test spray on an inconspicuous area. Hand-pick snails and slugs, or set out bait.

☐ **Fertilize.** Plants will do best with regular feeding now. If you haven't already, apply an acid fertilizer to azaleas, camellias, and rhododendrons after they finish blooming. Feed young, fast-growing trees and ones that are bearing fruit. To get better flower production on fuchsias and annuals, feed them every four to six weeks.

☐ **Plant annuals.** You can still sow seeds of many summer-blooming annuals this month: cosmos, impatiens, marigolds, portulaca, and zinnias. Many nurseries will have an abundant supply of these and other annual bedding plants: cockscomb, dwarf dahlias, petunias, and annual phlox.

☐ **Plant lawns.** This is a good time to plant dichondra and hybrid Bermuda lawns, since both thrive in warm weather. Water newly planted lawns deeply to encourage development of deep roots.

☐ **Plant perennials.** Many perennials will be available in small nursery pots: chrysanthemum, felicia, geraniums, gloriosa daisies, marguerites, pelargoniums, and Shasta daisies.

☐ **Plant vegetables.** Set out seedlings of eggplants, peppers, and tomatoes. Tomato plants will get off to a better start if you plant them deep—up to the bottom pair of leaves. Sow seeds of beans, corn, cucumbers, melons, pumpkins, squash, and watermelons. To extend your harvest, make successive sowings of beets, bush beans, carrots, corn, chard, and heat-tolerant radishes. Lettuce-planting season is over, except in the foggy coastal areas, where you can still plant loose-leaf varieties.

☐ **Prune permanent plants.** Prune, shape, or thin hedges, evergreens, and spring-flowering vines and shrubs. Prune citrus: trim overgrown tip growth from lemons; remove dead wood or small, twisted interior branches on grapefruits, limes, oranges, tangelos, and tangerines.

☐ **Shop for rhododendrons.** Nurseries should be well stocked with container plants this month. Many will be in bloom, so you can choose the flower color and form you like best.

☐ **Start cuttings.** Easy-to-propagate choices include carnation, chrysanthemum, dianthus, fuchsia, geranium, marguerite, and pelargonium. Plants from which you take cuttings should have 2 to 3 inches of new growth; each cutting should be 3 to 5 inches long (2 to 3 inches for fuchsias) and have at least two leaf joints.

☐ **Support flower stalks.** Before they bend or break, stake tall flower spikes of summer-blooming plants such as delphiniums, gladiolus, hollyhocks, and lilies.

☐ **Water.** Conserve water by making watering basins for larger plants (such as roses), and furrows for row crops (corn or carrots, for example). When you irrigate, make sure the water gets down to soak the root zone. To conserve moisture and to discourage weeds, apply a 2-inch mulch over soil.

☐ **Weed.** The same mild weather that coaxes desirable plants to sprout or bloom also spurs weed growth. Hand-pick these intruders before they go to seed and broadcast your problems. Various mulches can provide a weedproof barrier (look at the photograph above).

DON NORMARK

Bamboo Walk *at Van Dusen Botanical Garden, Vancouver, takes you past big-leafed Sasa tessellata (at left), shown in close-up below (center)*

Bamboo watching, San Diego to Vancouver

Hakone Garden *in Saratoga grows bamboos as they are grown in their native land. This is golden bamboo*

DAVID STUBBS

Gardeners fall into two classes, bamboo lovers and bamboo fighters. The fighters can scarcely believe that the lovers exist, but they do, and for them we are listing places where they can see collections of bamboos (from south to north).

In fact, because of the efforts of the American Bamboo Society, this decade may in time be thought of as a golden age in bamboo study. The group, in the two years of its existence, has created a journal, newsletters, and a roster of members—now more than 400. It has also begun systematically to search out and introduce new bamboo species and varieties, and to make these available to members through plant sales. Membership costs $12. The address is American Bamboo Society, 1101 San Leon Court, Solana Beach, Calif. 92075.

San Diego. The San Diego Zoo in Balboa Park has extensive plantings of several species of bamboo.

Encinitas. Quail Gardens, at 230 Quail Garden Drive, has an important collectio assembled and planted by the American Bamboo Society. There is also a quarantir station here where newly imported bamboos are held under observation befo being released for general planting. You will see more kinds here than anywhere else, but not all are mature.

San Marino. At the Huntington Library, Art Gallery, and Botanical Gardens are major bamboo plantings near the palm collection and in the Japanese garden. Th address is 1151 Oxford Road, but the entrance to the parking lot is at the south end of Allen Avenue.

Arcadia. The Los Angeles State and Cour Arboretum, 301 N. Baldwin Avenue, has many stately examples of clumping kinds of bamboo.

Saratoga. Hakone Garden, 12100 Big Ba Way, has mature plantings (unlabeled) of many bamboos in attractive Japanese settings.

San Francisco. Strybing Arboretum and the Japanese Tea Garden, both in Golden Gate Park, grow a number of bamboos. The latter has especially fine bamboo hedges and screen plantings.

Vancouver, B.C. Van Dusen Botanical Garden, Oak Street and W. 37th Avenue, has an extensive collection of bamboos near its northeast corner.

Leaf contrast: *broad leaf of Sasa tessellata is 18 inches long; narrow leaf belongs to Otatea aztecorum, photographed (right) at arboretum in Arcadia*

WILLIAM AP

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May plant sales . . . fuchsias to natives, Berkeley to Denver

FRANK PEDRICK

Succulents offered *at UC are from the garden's extensive collection. Lined up here are gray echeverias, green sedums*

Visitors *to the UC Botanical Garden's sale on May 8 get some outstanding plants and a view of the Bay*

A dozen plant sales by horticultural groups take place this month, nine in northern California, two in Colorado, and one in Utah. Here they are:

CALIFORNIA

Berkeley. May 8. The Friends of the Botanical Garden will hold their annual spring sale at the plaza of the Lawrence Hall of Science on Centennial Drive. The general public is welcome from 10:30 to 3. From 9 to 10:30, the sale is restricted to members of the Friends (you may join the group for $15, $7.50 for students and seniors). Admission to the sale is free.

The UC Botanical Garden has an immense variety of plants, many of them recently imported by the university's botanists and not available anywhere else. This year there will be many rare plants from high elevations in Mexico, as well as extensive collections of cactus, succulents, bromeliads, and orchids.

San Rafael. May 8. The Marin Branch of the American Fuchsia Society will hold its annual plant sale at Montecito Shopping Center on Third Street from 9 A.M. until all plants are sold. Free.

Saratoga. May 8. The Foothill Men's Garden Club will hold its annual plant and vegetable sale at the Saratoga Village Shopping Center, Big Basin Way and Saratoga-Los Gatos Road, from 9 to 4. All plants to be sold have been raised by club members, and proceeds will be used for horticultural scholarships, community projects, and reforestation in the Los Padres National Forest. Free.

Tiburon. May 15. The Marin Chapter of the California Native Plant Society will hold its seventh annual plant sale at the Richardson Bay Bird Sanctuary, 376 Greenwood Cove Road, from 9 to 3. Native trees, shrubs, and flowering plants are the featured items, but books, paintings, and posters—all concerned with native plants—will be offered as well.

San Mateo. May 15. The San Mateo Men's Garden Club will hold its annual plant sale at Borel Square Plaza from 9 to 4. Proceeds will be used for scholarships for College of San Mateo horticulture students. Free.

San Rafael. May 15. The Chrysanthemum Society of Marin will hold a spring plant sale at Montecito Shopping Center on Third Street from 9 to 2. Fifty cents a plant will get you any type of chrysanthemum, including bonsai varieties. Free.

San Rafael. May 15. The Marin Orchid Society will hold its annual sale in front of Long's Drug Store in the Northgate Plaza shopping center from 9 A.M. until all plants are sold. In addition to hundreds of orchids, there will be other house or landscape plants. Free.

Aptos. May 18 to 21. The Cabrillo College Horticulture Department will hold its plant sale at the college, on Soquel Avenue. Sale area is the central law near the cafeteria; hours are 9 to 4. Loo for bedding plants, dried flowers, herb central coast native plants, perennial succulents, and many other plants. Fre

Palo Alto. May 28. The Peninsula O chid Society will hold an auction sale c selected and awarded orchid plants at S Mark's Episcopal Church, 600 Colorad Avenue, from 8 P.M. to 10 P.M. Admi sion is free.

COLORADO

Denver. May 7 and 8. The Denver Bo tanic Gardens will hold its annual plan and used book sale in and around 100 York Street from 9:30 to 5:30. It pron ises the largest selection of plants avai able at any one time in the Denver are Admission is free.

Colorado Springs. May 20, 21, and 2 The Horticultural and Art Society c Colorado Springs will hold its sale a the Honnen Ice Rink, Colorado Colleg Cascade and W. Cache la Poudre street Hours are 9 to 5 Thursday and Friday 9 to 3 Saturday. Free.

UTAH

Salt Lake City. May 22. The third Stat Arboretum of Utah plant sale will tak place at the Arboretum Center on th University of Utah campus. On sale wi be a wide variety of plants donated b nurseries all over the U.S. Free.

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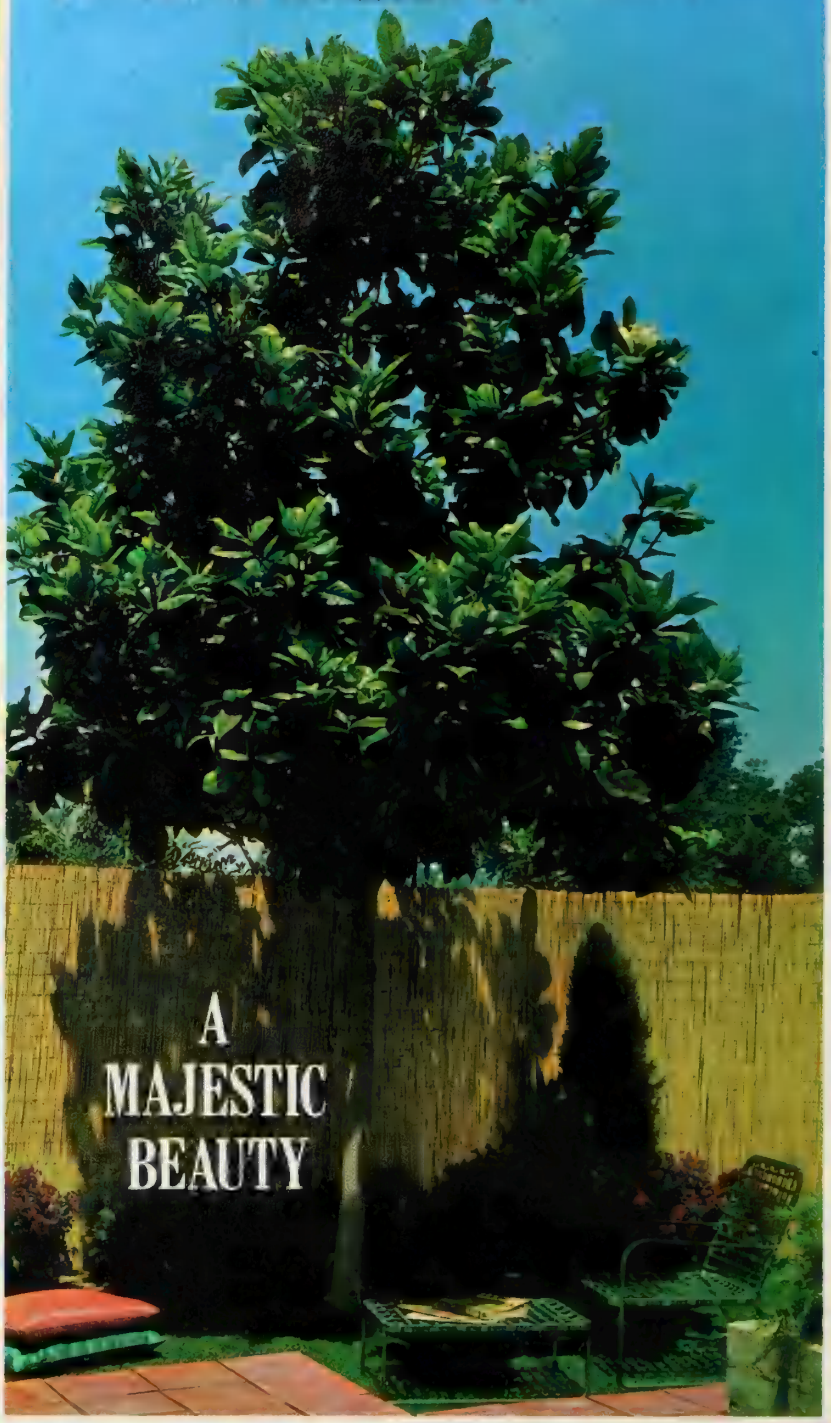

The 'Majestic Beauty' Magnolia tree is truly a gorgeous sight. Huge cup-shaped, fragrant, white flowers in summer draw the attention of all who admire beauty in nature.

Enormous leaves crown this medium-size, pyramid shaped evergreen. For refreshing shade, plant one or more in your landscape. You'll enjoy life more when you do!

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BARROW M. WAT

Deeply recurved petals *give the flowers of glory lily the look of parachutists suspended in midair*

Rare, spectacular, not hard to grow . . . glory lily

With a name like *Gloriosa rothschil iana,* one expects a good plant. But th glory lily or climbing lily exceeds ev this expectation—it is spectacular. I flaunting 4-inch flowers blend scarl and golden yellow in bold fashion, an their petals sweep backward so sharp that the flower looks as if it's making power dive. Yet despite its strangene and comparative rarity, it is not hard grow. Now is the time to start one in pot to bloom this summer.

The glory lily sprouts from a poisono V- or L-shaped tuber that is no le strange in appearance than the flower If you cannot find packaged tubers your nursery (it is nearing the end the planting season), you can order fro a number of mail-order sources: W Atlee Burpee, Warminster, Pa. 1897 Geo. W. Park Seed Company, Gree wood, S.C. 29647; John Scheepers, Inc 63 Wall St., New York 10005; and Va Bourgondien Bros., Box A, Babylo N.Y. 11702.

Handle the tuber with care: it is britt and if broken is subject to rot. (If yo break one, trim the broken ends with sharp knife, dip in charcoal or sulfu and let ends callus over before you plan

Plant the tuber horizontally 3 or 4 inch

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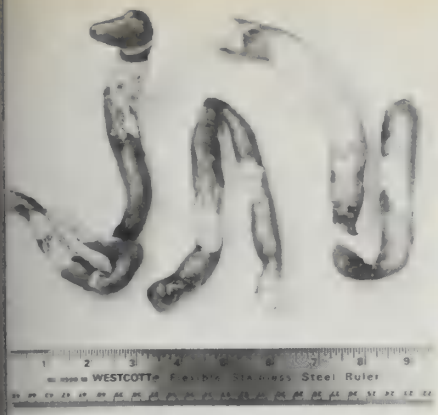

izarre tubers *of glory lily resemble umpy boomerangs. They're brittle: one t right broke when shaken out of pot*

eep in rich, fast-draining soil: one to a -inch pot, two or three in an 8- to 10-ich pot. Growth takes place from the p of one arm of the tuber, usually the rger, so place this point near the center f the pot. Water thoroughly to settle oil. Keep the pot in a sheltered place ndoors or in a greenhouse until weather arms up. It isn't usually necessary to ater again until top growth appears; hen begin to water regularly to keep oil damp but not soggy. Feed every hree weeks with dilute liquid fertilizer.

rovide a support for the plant to climb n. (A tripod of thin bamboo stakes tied ogether at the top will do.) The bright reen, 6-inch leaves taper to tendrils that upport the slender stems.

oung plants may produce a single stem 3 feet or less and give three or four owers. Plants from larger tubers may ranch toward the tops and produce a ozen or more blooms.

hen blooms first appear, the segments re small and the color greenish. But ach flower will enlarge over several ays, finally reaching full size and full olor (red suffusion spreads until the ower is red with yellow borders on avy-edged, deeply recurved segments). ndividual flowers last several days on e plant and nearly as long in water. ew flowers continue to appear for sev-al weeks in late spring and summer.

fter flowers have finished and foliage egins to yellow, gradually withhold ater until plant is dormant. Keep the ber dry until next winter or spring.

drainage is very good, glory lily may ve and bloom in the open garden in wland California. (They have been ob-rved as far north as Chico in the Sac-mento Valley.) Soil should be naturally eep or amended to a foot or more. Out-oors, mark the planting site carefully so our cultivation won't disturb tuber or nerging shoot; or plant glory lily under small, open shrub, which will also help pport its stems. □

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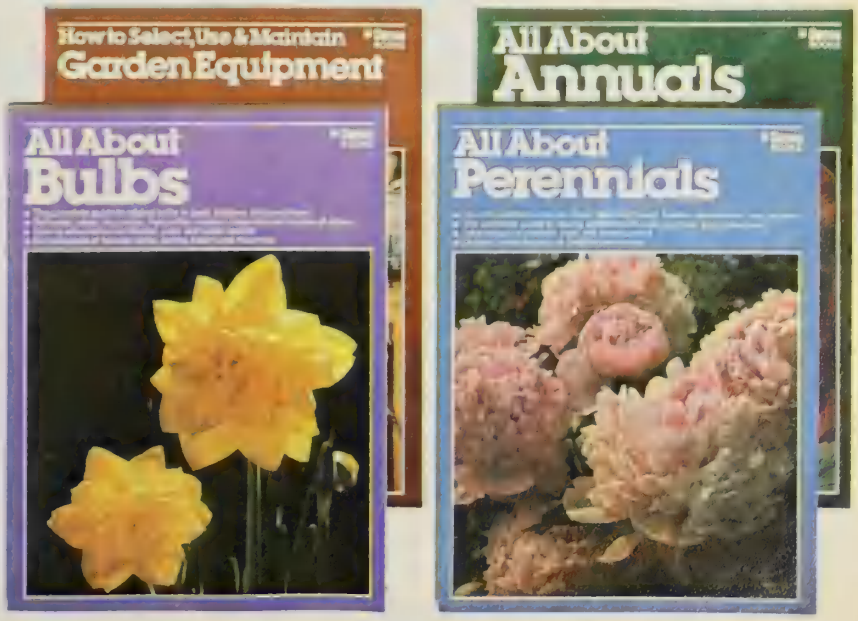

Nothing should grow in soil except the plant you put in it.

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NORMAN A. PLATT

A snug shell *of Viola hederacea greens the outside of moss-lined, soil-filled wire basket. An azalea grows in the center*

Ground covers in and on baskets

Here's a different use for ground covers that are low and fine textured: plant them around the sides of moss-lined wire baskets. Carol Smithee, of Modesto, California, had success with three kinds—blue star creeper, baby's tears, and *Viola hederacea*. (Her fourth choice, potentilla, tended to straggle unless trimmed.)

For solid coverage in a few months, Mrs. Smithee spaced plugs of the ground covers about 3 inches apart. Baskets are watered every other day in summer and fertilized once a month by an overhead drip irrigation system. Frost-tender baskets go into a greenhouse in winter.

Compact ground covers to try

Cymbalaria aequitriloba. A dense carpeting mat with tiny snapdragon-shaped flowers in spring. It likes shade, ample water.

Blue star creeper, sold as *Isotoma*. It looks like baby's tears but takes full sun or partial shade. Tiny flowers dot its surface in spring.

Irish or Scotch moss (*Sagina*). Gives the texture of moss in emerald or golden green colors. Tiny white flowers in spring. Takes full sun, or partial shade in hot climates.

Baby's tears (*Soleirolia*). A familiar favorite for shade that spreads fast, roots easily from plugs collected from the garden. On a basket, it may freeze more readily than on the ground in winter.

Creeping thyme. Both the grayish woolly thyme and shiny green mother-of-thyme (sold as *Thymus serpyllum*) make interesting baskets, especially with succulents. They need less water than others listed, but also will probably need some pruning.

Viola hederacea. The tight green mat shown, with miniature white flowers in summer. It goes dormant below freezing.

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IRA SLADE

Fluffy lavender blooms *festoon 'Cordon Bleu', a new hanging-basket crape myrtle. Plant spread of 2½ feet will double by fall*

DOLORES BLALOC

Fuchsia-like *weeping growth characterizes self-branching crape myrtles, even before bloom. That's breeder David Chopin*

Think of it as a hot-climate fuchsia . . . it's a new hanging crape myrtle

On and near the coast of California, Oregon, and Washington, gardeners grow hanging fuchsias to such perfection that visitors from warmer and drier climates look on with envy. This month, those inland gardeners come into their own.

A startling new form of heat-loving miniature crape myrtle—a form in many ways resembling the trailing fuchsia—will be offered in Western nurseries for the first time. This weeping crape myrtle is so promising that a million plants have been propagated by one large wholesale nursery for introduction this month.

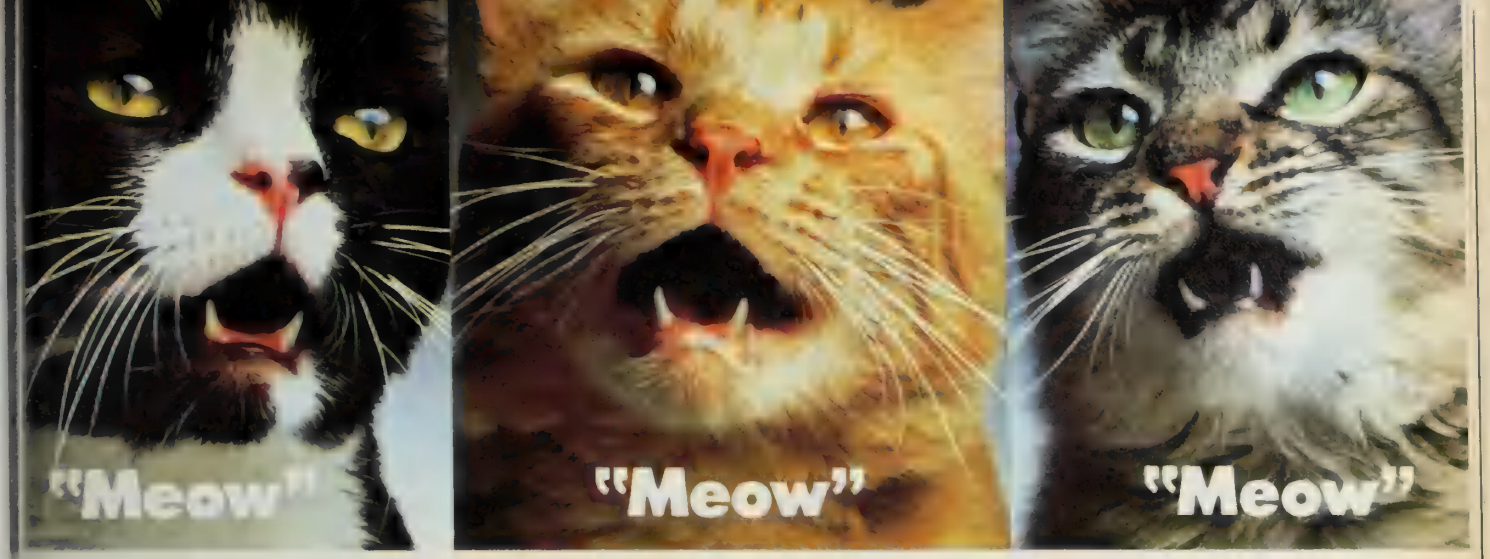
Bred over the past 10 years by Louisiana plantsman David Chopin, the 10 available varieties are self-branching perennials which all take well to container growing. If left alone, they reach 12 to 18 inches in height. If upright-growing branches are pinched out, a plant will trail over its container's edge, just as a hanging fuchsia does.

Bright green leaves are covered with numerous flower clusters from May or June through October, or until first frost. Depending on which of 10 varieties you buy, flowers range from white through pink and red shades to lavender and purple. In Florida tests, a small plant in a 2-inch pot grew enough in one season to fill a 12-inch hanging basket.

All the new varieties thrive in full su but will grow in partial shade. They lov summer heat. They can survive winte cold to 15°. So far, they have proved t have few insect and disease problems even powdery mildew, a problem on th shrub- and tree-type crape myrtles, is in frequent on these plants.

Best growth and bloom occur when so is kept consistently moist (not wet) an plants are fed regularly with a complet fertilizer.

Plants will be available in many nurserie in 1-gallon cans (about $7), 2-gallon can (about $11), and 8-inch hanging basket (about $15).



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And he's going to eat those great tastin' morsels like there's no tomorrow.

So remember, never tell your cat you've run out of Meow Mix.

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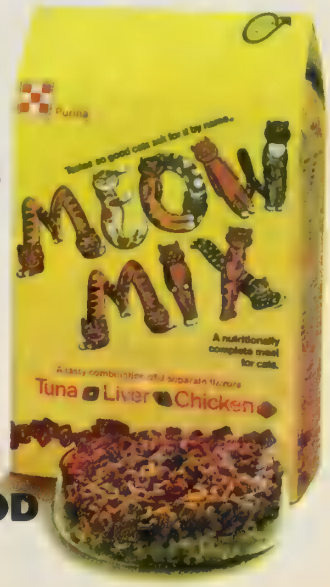

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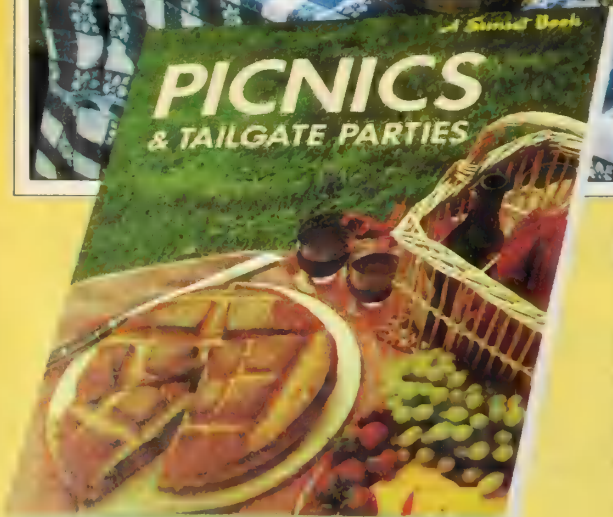
ONLY MEOW MIX TASTES SO GOOD CATS ASK FOR IT BY NAME.

Create a Picnic Party



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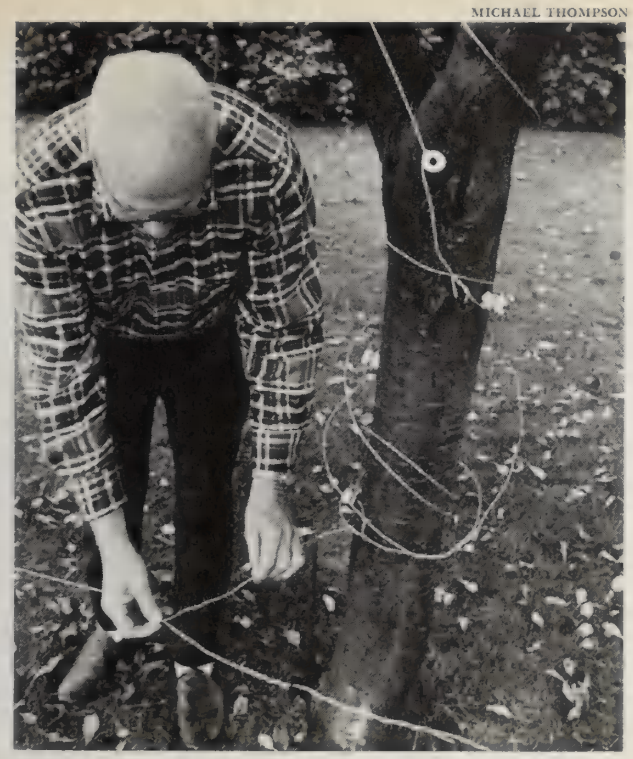
Look for ***Picnics and Tailgate Parties*** and Sunset's other cookbooks at your favorite book store or supermarket, or contact Sunset Books, Willow and Middlefield Roads, Menlo Park, California 94025.

MICHAEL THOMPSON



Wire strung on insulators *delivers split-second electric impulses to keep raccoons from getting to cherries. A grounding wire is wrapped tightly around the trunk*

It's an electric cattle fence for raccoons . . . it saves cherries

is home orchard may look a bit un-tural—wires, rods, and insulators in, der, and around the trees. But with is paraphernalia in place, John Parker n pick and use all the sweet cherries at grow on five trees in his garden in rt Ludlow, Washington. Without this otection, raccoons would get the fruit. e rig needs to stay in place for only out four to six weeks. Put it up when erries are big but still green (raccoons t cherries at that stage) and take it wn when they have been picked.

sically, the device is an electric cattle nce strung under and into cherry trees. e hot wire is a single strand of bare re supported by insulators, with one d connected to a fence charger. The nce charger contains either a house-ld current transformer or batteries, us an impulse maker that produces w-amperage, split-second impulses—e combination that makes electric ncing effective and safe. A ground wire ns from the control box to a metal ake driven into the soil.

hen an animal standing on bare earth r touching a ground wire) contacts the t wire, it completes a circuit and gets uncomfortable but harmless shock. Vandering pets and child cherry-pickers ould also receive a shock; you may want to post a warning sign.)

Tree trunks need only two or three coils of wire around them to keep raccoons at bay. Both ground and charged wires continue into the tree's canopy.

To make such a rig, use only UL (Underwriters' Laboratories) listed units; look for a UL in a circle as part of the label. *Do not* try to assemble or build a charger or transformer on your own.

Farm supply firms sell such equipment as electric fencing accessories: fence chargers (battery-operated units cost $30 to $50, those using household current $42 to $70), insulators, posts, and wire. □

Another way: *wood frame at base of tree supports insulators that hold charge wire*

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A sometimes wet stream bed meanders through redwoods . . . in a Sacramento Valley garden that is just four years old

How much time and space do you need to create your own forested park? This 38- by 70-foot garden started from bare soil just four years before our photographs were taken. Here's what it took to make the transformation, designed and installed by Pam and Tom Parker of Citrus Heights, California.

To give faster plant height and improve drainage, a strip 8 feet or more wide in front of the fence was mounded several feet high. Rocks and railroad ties anchor the mounds. Note in the diagram how the mound widens opposite the patio, breaking up the yard's L-shape and making it seem larger.

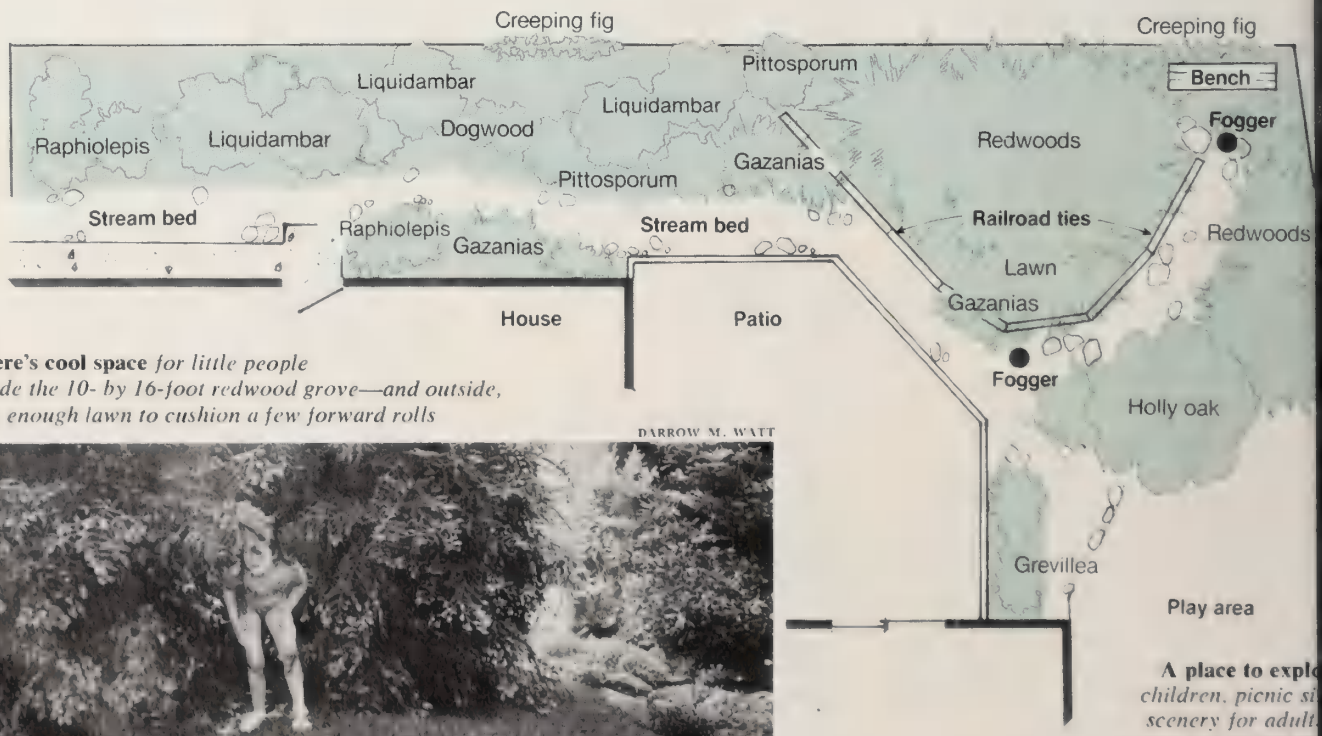
Near this corner, the mounds split to let a dry creek spill between them. The stream bed curves around the mounds, following the lot's natural drain pattern to the front drive. The subsoil is so impenetrable that when sprinklers run too long or it rains hard, excess water seeps into the stream bed and trickles toward the street. Cobbles in the stream are not only decorative—they also stopped earlier erosion.

For year-round privacy, the fence line is screened with redwoods and a live oak planted on the mounds. These also hide the origin of the stream bed and create pri spaces to explore—one in the open for adults, another in the grove for children.

Around the corner of the house, where privacy is less portant, deciduous liquidambars and a dogwood add var in color and texture, especially in spring and fall. Raphiole grevillea, and ferns fill gaps between trees; creeping fig tr a leafy pattern on the grape-stake fence.

Tufts of yellow and white gazanias brighten the stream ba along with California poppies and sweet alyssum in season

Why the fogger nozzles? They use minimal water while c ing everyone off, including plants. For regular watering, the a standard irrigation system.



There's cool space *for little people inside the 10- by 16-foot redwood grove—and outside, just enough lawn to cushion a few forward rolls*

DARROW M. WATT

A place to expl *children, picnic si scenery for adult stream bed meander rear fence to front driv "forest" provides fen privacy and a secluded (see diagram); gazanias along the stream's*

SUNS

You don't have to *get in mist to cool off, but young Ryan can't resist. Fog nozzles emit only ½ gallon per minute, yet take 10° to 15° off Sacramento Valley heat. You can install them permanently or screw onto a hose*

Wasps, lizards, mantises, and birds take care of rose pests at the Huntington. Here's how

In the chart on pages 110 and 111, one of the four Los Angeles public rose garden managers—John C. MacGregor IV of the Huntington Gardens—surprises us all by saying: "Not a single insecticide or miticide has been used in our rose garden the last five years, and we're sure we're better off for it."

Mr. MacGregor's statement comes as a surprise, because spraying or dusting with insecticides and miticides is generally considered to be essential in growing good roses. The Huntington roses that you see in the photograph at the top of page 109 are as husky, perfect, and beautiful as you could ask for. (A trifling amount of pest damage exists but only the perceptive eye can find it.)

This state of affairs at the Huntington has been accomplished by allowing nature to take its course. The 207-acre grounds and the surrounding neighborhood support a population of insects, spiders, lizards, and birds that feed on insects and mites that would damage the roses. Here you can meet the 29 creatures that horticulturist MacGregor credits as being the most effective in keeping rose damagers in check.

Your success with bio-control depends on whether your roses are surrounded by enough unsprayed trees and shrubs to support a diverse population of pest-killing organisms. Also it depends on how patient you are—after you quit spraying, it takes a while for nature's forces to come into balance.

Wasps that wage war against caterpillars

One of the wasps at the Huntington is quite large and makes his small contribution in a dramatic way. The yellow and black mud dauber wasp (*Sceliphron caementarius*) patrols the rose garden during late summer for caterpillars, which he chews up.

The other wasps are smaller (about ⅛ inch long), but even more useful. The braconid wasps (family *Braconidae*) lay their eggs inside their host caterpillars, aphids, beetles, and other harmful insects. When the larvae complete their development, they spin their cocoons on their host or inside it. If you see a moribund caterpillar with white, egg-like pouches attached to its skin, don't destroy it. The pouches are the cocoons from which more braconids will emerge.

Chalcid wasps (family *Chalcididae*) can clone themselves asexually. A single egg, deposited into the body of a caterpillar, may produce a dozen larvae that consume the caterpillar from inside.

Trichogramma wasps destroy the eggs of various harmful worms and caterpillars. Other minute wasps, like some species of the *Eulophidae* and *Encyrtidae* families, parasitize aphids, scale insects, and whiteflies.

Lacewings gorge on the rose damagers

Adult and larval lacewings eat aphids, mites, scale insect nymphs, mealybugs, and also the eggs of all of those creatures. The bigger form at the Huntington is the California green lacewing (*Chrysopa californica*). Slender, green, transparent-winged adults lay their whitish eggs on rose leaves or thorns, each at the end of a thread.

The smaller Pacific brown lacewing (*Hemerobius pacificus*) lays eggs on undersides of leaves.

Insidious, carnivorous bugs

During hot weather, hardly a rose at the Huntington can be found without one or more insidious flower bugs (*Triphleps insidiosus*) in it. The fast moving, shiny black, pinhead-sized bugs with yellowish wing covers dive into the flowers in pursuit of thrips.

Assassin bugs (*Reduviidae* family) earn their name from the way they attack and stab their victims, injecting them with liquids that quickly dissolve their insides, then sucking them dry. Their prey varies greatly, including bees, wasps, butterflies, day-flying moths, caterpillars, grasshoppers, mantises, and spiders.

Ladybird beetles—some do "fly away home"

Both the familiar adults and their larvae eat aphids, mealybugs, and scale insects. Mail-order ladybird beetles usually fly away. The ones that live in the neighborhood are more reliable. Huntington Gardens are visited by four species.

Two friendly flies to watch for

The brightly colored syrphid flies resemble small bees or wasps. Look for them hovering over roses. The slug-like green or brown larvae are up to ⅛ inch long. They grab their prey by means of hooks which they extend from the mouth cavity. A single larva has been observed to eat an aphid a minute all day long.

Tachinid flies come in many species. Most resemble bristly, overgrown houseflies. They lay their eggs on the skins o various insects and caterpillars, and th larvae burrow into their hosts' bodie killing them.

Huntington's praying mantises succeed

It has been said (in *Sunset*) that "mar tises eat garden pests, also good insect also each other . . . they hardly eve make a dent in a garden's insect popula tion." But the Huntington experience i more favorable. There, native prayin mantises tackle a wide range of prey from aphids to grasshoppers, katydid and moths. If they're in your garden, b careful, at pruning time, not to remov their brown, accordion-like, 1-inch-long ¾-inch-wide egg cases from canes.

Silent ambush by two kinds of spiders

Orange garden spider (*Miranda auran tia*), handsomely marked in yellow an black, constructs its intricate spiraled wel in quiet spaces to trap moths and othe night-flying insects—whose larval form can be rose leaf and petal feeders.

Crab spider or flower spider (*Misumen vatia*) makes no web, but ambushes it prey from between the petals of flowers Its appearance and ability to move side ways or backward earned it the nam crab spider.

Lizards do their share of pest control

In the rose garden, the most conspicuou small reptile is the Western fence lizar (*Sceloporus occidentalis*). It eats a wid array of insects, including flies, aphids butterflies, and ants. (Ants are a serious garden pest because they distribute an protect aphids and mealybugs.)

Seldom seen but widely present is th snake-like Southern alligator lizard (*Ger rhonotus multicarinatus*). It prefers mois shade on the edges of the garden, and dines on slugs, sowbugs, earwigs, and other ground-dwelling pests.

Eleven birds that eat roses pests

Birds play a key role in the control of destructive insect pests. Here are a few of the insect-eating birds that regularly nest in or visit the rose garden area:

Mockingbird (*Mimus polyglottos*). These world-champion songsters are fun to watch. They often catch butterflies, katydids, and grasshoppers in midair. They

uild large nests of rough twigs in the ›ps of climbing roses or in nearby trees.

he towhees. The brown (*Pipilo fuscus*) nd the rufous-sided (*P. erythrophthalmus*) both scratch in dead leaves for sowugs, earwigs, and other ground-dwelling ›sects. The brown towhee nests in dense ushes at about waist height. The other ne (showier—black head, black and hite wings and back) nests on the round in dense undergrowth.

ushtit (*Psaltriparus minimus*). Moving bout in swarms of 50 or more, these ny fearless avian acrobats search out phids under leaves. Two or three pairs eave a long, sack-like community nest f plant fibers and dried oak blossoms. t the Huntington, these often appear at bout eye-level in the climbing roses.

louse finch (*Carpodacus mexicanus*). Mostly fruit and nectar eaters, these iendly birds also relish aphids and ther honeydew-secreting insects. Each ›ring and summer, they raise several roods in nests suspended in vines and imbing roses.

obin (*Turdus migratorius*). Earthworms nd small fruits (strawberries, olives, herries) are favorite foods of the omnivrous robin, but during the nesting sea›n this bird consumes large quantities f caterpillars, beetles, grasshoppers, kadids, and earwigs. Most robins head ›r the mountains in summer, but a few lways remain at the Huntington, buildg mud and stick nests atop the pillars f the arbors and in the trees.

alifornia thrasher (*Toxostoma redivium*). This chaparral bird often nests in ıe large shrub roses below the rose garen. It hops among the bushes and uses s long, curved beak to dig beetles, rubs, ants, and earwigs out of the round. It seldom flies.

alifornia quail (*Lophortyx californius*). Huge coveys of these distinctive rested fowl roost in the subtropical rose ıickets below the main rose garden. They sally forth in late afternoon and vening to feed on weed seeds and in›cts that inhabit mulches and ground tter. In summer, they break up into airs and nest on the ground at the base f any bush dense enough to conceal nem—no matter how heavy the human affic around them.

ellow warbler (*Dendroica petechia*), **ownsend's warbler** (*D. townsendi*), **Vilson's warbler** (*Wilsonia pusilla*). Most varblers that visit California in the win›r travel north to Alaska or Canada in ummer. These and other small birds of heir tribe, variously marked with black, ray, and yellow, can often be seen durng the cold months, singly or in flocks, larting from bush to bush. Almost exlusively insect-eaters, they help keep the phid population in check. □

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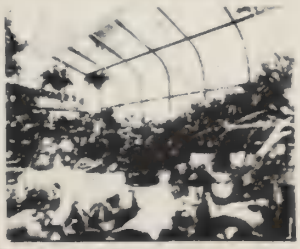

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Sunset's HIGH-ELEVATION GARDEN GUIDE

Short growing season, cold winters

Clear the decks: it's do-anything time in your garden. In May, you can plant ornamentals and vegetables, prune, and begin to water. (In coldest areas, wait until late in the month.) But be wary: this month could still bring a last killing frost.

To find out when the last heavy frost usually occurs in your area, consult your county's cooperative extension service or farm adviser's office. Or ask neighbors.

Look for dwarf dahlias

Compared with standard-size dahlias, the dwarf varieties—sold this month as seedlings in nursery packs—bear more (though smaller) flowers, over a longer period. These flowers are 3 to 4 inches across and come in shades of red, pink, yellow, and white.

To use dwarf dahlias in beds, plant about 18 inches apart. Provide well-worked soil and plenty of water. Good news; since they reach only 15 inches tall, they don't need to be staked.

Snow-in-summer: an easy-care flowering ground cover

The photograph below shows why *Cerastium tomentosum* has the contradictory common name of snow-in-summer. It just looks like that.

This cascading ground cover is an excellent choice for a mountain garden, particularly on a slope where you will pla other perennials. The silvery gray folia of *Cerastium* quickly spreads into a thi mat, filling areas between shrubs or oth low-growing plants.

Masses of snowy flowers appear throu summer. To keep the planting looking best, shear faded flower clusters occasionally.

Plant snow-in-summer now from nurse containers in fast-draining soil whe plants will receive full sun. Plant 12 18 inches apart. Or sow seeds, followi packet instructions.

Winter may make plants look shabb but they recover quickly in spring.

Some good candidates for mountain hedges . . . in lows, mediums, and talls

In cold-winter locations, spring is t best time to set out hedge plants. B common hedges that thrive in mild-wi ter areas can be chancy in mountain c mates. What's needed is a tougher hed plant that can take rugged winters.

Many mountain gardeners keep hedg unsheared or only loosely pruned, as yo can see in the photograph above. Th only real requirement is that the pla grow densely enough to provide th amount of screening you want.

If you're planning a hedge, check th list of winter-hardy species available nurseries this month:

Low hedges (to 4 feet). *Pachistima ca byi, Potentilla fruticosa,* Chenault cora berry (*Symphoricarpos chenaultii*).

Medium hedges (3 to 8 feet). *Berber thunbergii,* Siberian pea (*Caragana arbo rescens*), cotoneaster (*C. acutifolius, C multiflorus*), honeysuckle (*Lonicera mo rowii, L. tatarica*), ninebark (*Physoca pus opulifolius*), buckthorn (*Rhamnu cathartica, R. davurica, R. frangula Spiraea vanhouttei,* lilac (*Syringa chiner sis, S. persica, S. villosa, S. vulgaris*).

Tall hedges (taller than 8 feet). Haw thorns (*Crataegus*), Russian olive (*Elae*

BARRY STAVER

Snow-in-summer *(Cerastium tomentosum) gives lacy effect when planted with blue catnip and junipers on this Boulder slope. Plant now from cans*

Pruned *to fence height, Russian olives (planted about 2 feet apart) make dense-looking hedge in Fort Collins, Colorado*

ıus angustifolia), Rocky mountain ju-ıer (*Juniperus scopulorum*), eastern ıl cedar (*Juniperus virginiana*), mul-ıry (*Morus alba*), spruces (*Picea abies, ɔngelmannii, P. pungens*), pines (*Pinus go, P. sylvestris*), cherry (*Prunus ma-eb*), American arborvitae (*Thuja oc-entalis*).

ne of these are deciduous, some conif-us. When you buy plants, choose ılthy-looking ones of uniform size. If ı plan to prune the hedge, plant half far apart as for an unsheared hedge. acing varies from species to species; . your nurseryman.

; called "swelling soil," t it's far from swell

parts of seven Western states, a cer-ı kind of clay is present in soil. This y, known by geologists as *mont-ırillonite*, annually causes millions of lars in damage to houses by swelling en wet and shrinking when dry. The tes where this can be a problem are lifornia, Colorado, Montana, Nevada, w Mexico, Utah, and Wyoming.

ıen such soil absorbs water, it pushes ıinst foundations, driveways, and side-lks "like a hydraulic jack," according Colorado state geologist Candace Jo-im. People call it "swelling soil." Some lorado homes that sold for about $50.-0 in 1976 have since sustained $30,000 $40,000 worth of damage from swell-; soil.

rtunately, you can minimize your ances of damage by taking precautions ıen you landscape your garden and ıen you care for your plants—for in-ınce by controlling your soil slope, oiding certain plants in certain loca-ns, and not irrigating near the house.

ays to recognize and deal with swelling l are detailed in a new booklet pub-hed by Colorado Geological Survey. ritten for the layman, *Home Land-ıping and Maintenance on Swelling il* sells for $2.25 postpaid from the GS, 1313 Sherman St., Room 715, Denver 80203. Or you can buy it in person for $1.50.

You haven't discovered ranunculus? Here's how to plant, where to buy

You can grow ranunculus at high elevations and enjoy the distinctive bright flowers that make this the mild-winter West's favorite bulb—if you dig and store the tubers over the winter.

In recent years, mountain nurseries have started to stock these strange, claw-like tubers. You plant them as soon as the danger of a killing frost is past—usually around May.

Best-suited strain is 'Tecolote', which also is the most widely available. Foliage is fresh green and nearly fern-like. Flowers, on stems reaching to as high as 18 inches, can be as big as 4 inches across. Colors range from white through yellows, golds, and oranges, to pinks, roses, and reds. Some have picotee coloring (petal edge in a contrasting color).

Ranunculus require full sun and fast-draining soil. Enthusiastic gardeners buy them four to six weeks before planting time and start them in flats of perlite or sand, then transplant to the garden as if they were annuals. This way, first flowers come earlier. Next year and after, you can do this with the tubers you dig up and store in fall.

If your nursery doesn't sell ranunculus tubers, you can order from these mail-order houses (catalogs free): Gurney's Seed & Nursery Co., Yankton, S.D. 57079; Jackson & Perkins Co., Medford, Ore. 97501; Geo. W. Park Seed Co., Greenwood, S.C. 29647. □

MAY CHECK LIST: *Keeping up with spring, planting for summer*

☐ **Care for bulbs.** Pluck faded flowers from daffodils, tulips, other spring-blooming bulbs. Let leaves remain until they brown (so bulbs will store nutrients for next year's bloom). When bloom has finished, feed with a high-phosphorus fertilizer. Snip off any seed heads.

☐ **Fertilize lawns.** Because lawns can grow vigorously this month, you should apply a high-nitrogen fertilizer and water it in thoroughly.

☐ **Harden off seedlings.** Transfer flower and vegetable seedlings to a coldframe or other protected area. Growing in close-to-outdoors conditions readies plants for intense sunlight and cool evenings.

☐ **Plant annuals.** You can set out nursery plants or start seed of African daisy, bachelor's button, calendula, clarkia, cleome, godetia, linaria, lobelia, pansies, snapdragons, sweet alyssum, sweet William, verbena, violas. At the end of the month, plant heat-loving petunias.

☐ **Plant from containers.** Before summer heat starts is the time to plant nursery-grown ground covers, shrubs, and trees.

☐ **Prune some plants.** Tip-prune evergreens to promote compact growth. Remove winter-killed branches from euonymus, junipers, Oregon grape, pyracantha, and yews. Finish pruning roses early in the month. After they bloom, prune spring-flowering shrubs. Cut old raspberry canes back to 4 or 5 feet.

☐ **Set out vegetables.** Early in the month, sow a second crop of beets, broccoli, carrots, lettuce, peas, radishes, and Swiss chard. Later, sow seeds of heat-loving beans and corn. Keep soil moist until plants emerge (see photograph at lower right). At the end of the month, set out plants of tomatoes and squash, but be prepared to provide frost protection if necessary.

☐ **Water.** Begin regular deep watering of ground covers, lawns, shrubs, trees.

Kept in place *by bricks, newsprint strips retain soil moisture until vegetable seeds sprout. Allen Parrott garden, Santa Fe*

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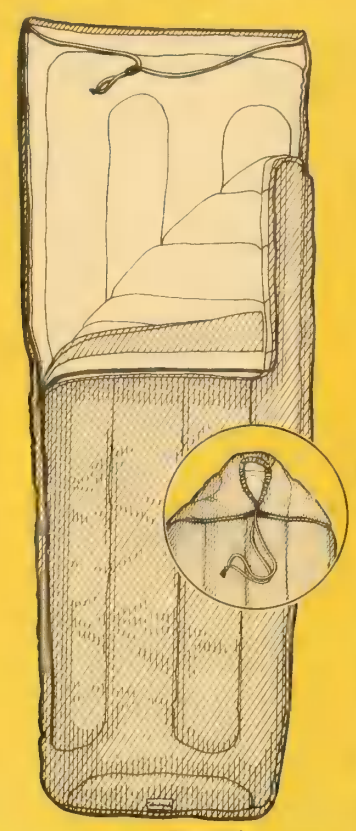

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Iris, roses, cactus, orchids, bonsai, rhododendrons . . . here are the spring flower shows

For plant sales, see page 244.

NORTHERN CALIFORNIA

Redding. May 1. Annual show presented by the Shasta Iris Society. Place: Mount Shasta Mall on Hilltop and Dana drives. Hours: 1 to 6. Free.

Rohnert Park. May 1. Fifteenth flower show sponsored by the Rohnert Park Garden Club. Place: Burton Avenue Recreation Center, 7421 Burton Ave. Hours: 1 to 5. Admission is free.

Santa Rosa. May 1. Annual flower show by the Santa Rosa Iris Society. Place: Luther Burbank Art and Garden Center, 2050 Yulupa Ave. Hours: 1 to 5. Free.

Citrus Heights. May 1 and 2. Fourth annual rose show sponsored by Fountain Square. Place: Fountain Square nursery complex, 7115 Greenback Lane. Hours: noon to 6 Saturday; 9 to 5 Sunday. Admission is free.

Concord. May 1 and 2. Annual show by the Mount Diablo Iris Society. Place: Sun Valley Mall, Interstate 680 and Willow Pass Road. Hours: noon to 5 Saturday; 10 to 5 Sunday. Free.

Cupertino. May 1 and 2. Annual show of iris flowers and arrangements by the Clara B. Rees Iris Society. Place: Vallco Fashion Park, 10123 N. Wolfe Rd., just off Interstate 280. Hours: noon to 5:30 Saturday; noon to 4 Sunday. Free.

Fairfield. May 1 and 2. Annual show by the North Bay Rose Society. Place: Solano Mall (exit Interstate 80 on Travis Blvd.). Hours: 1 to 5 Saturday; noon to 5 Sunday. Free.

Fort Bragg. May 1 and 2. Fifth rhododendron flower and slide show presented by the Noyo Chapter of the American Rhododendron Society. Place: 490 N. Harold St. Hours: 1 to 5 Saturday; 9 to 5 Sunday. Free.

Morgan Hill. May 1 and 2. Annual flower show and plant sale by the Flower Lovers Club. Place: Friendly Inn, 17666 Crest Ave. Hours: 1 to 5 Saturday; 10 to 4 Sunday. Free.

Mountain View. May 1 and 2. Show by the Kusamura Bonsai Club. Place: Sangha Hall, Mountain View Buddhist Temple, 575 Stierlin Rd. Hours: noon to 9 Saturday: 10 to 4:30 Sunday.

Oakland. May 1 and 2. Annual sprin wildflower show cosponsored by the Cal ifornia Native Plant Society and th Natural Sciences Guild. Place: Natura Science Gallery, Oakland Museum, 100 Oak St. Hours: 10 to 5 Saturday; noo to 7 Sunday. Free.

Redwood City. May 1 and 2. Annua show and plant sale by the San Mate County African Violet Society. Place Howard Johnson's Motor Lodge an Restaurant, Whipple Avenue at Bay shore Freeway. Hours: 2 to 8 Saturday 10 to 4:30 Sunday. Admission is free.

Sacramento. May 1 and 2. Twenty-sec ond annual plant show and sale pre sented by the Sacramento Cactus an Succulent Society. Place: Iva Gar Shepard Garden and Arts Center, 333 McKinley Blvd. Hours: 2 to 5 Saturday 10 to 5 Sunday. Free.

San Mateo. May 1 and 2. Show spon sored by the San Mateo Chapter of the American Rhododendron Society. Place San Mateo Garden Center, 605 Parkside Way. Hours: 1 to 5 Saturday; 10 to 4 Sunday.

Saratoga. May 1 and 8. Two-session herb workshop at Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 9:30 to 3 both days. Fee: $30. Bring a bag lunch and cup. Reservations are necessary; telephone (408) 867-0307.

Chico. May 2. Sixth annual show presented by the Chico Bonsai Society. Place: Chico Area Recreation Center, 545 Vallombrosa Ave. Hours: 10:30 to 4. Free.

Redwood City. May 2. Twenty-fifth annual show by the Peninsula Rose Society, with cooperation from the Redwood City Parks and Recreation Department. Place: Community Activities Building, 1400 Roosevelt Ave. Hours: 1 to 5. Free.

Santa Rosa. May 2. Show presented by the Redwood Empire Rose Society. Place: Luther Burbank Art and Garden Center, 2050 Yulupa Ave. Hours: 1 to 5. Admission is free.

Modesto. May 8. Show presented by the Modesto Rose Society. Place: Hischier Nursery, 1520 Standiford Ave. Hours:

noon to 5. Admission is free.

Redding. May 8. Annual show presented by the Cascade Wonderland Iris Society. Place: Downtown Mall, 1320 Yuba St. Hours: 10 to 6. Free.

San Mateo. May 8. A tour of five Peninsula gardens sponsored by the San Mateo Arboretum Society. Hours: 11 to 3. For tickets ($7.50), telephone (415) 344-0454.

Capitola. May 8 and 9. Annual show of the Monterey Bay Iris Society. Place: Capitola Mall, 1855 41st Ave. Hours: noon to 5:30 Saturday; noon to 4 Sunday. Admission is free.

Mountain View. May 8 and 9. Annual show and plant sale presented by the San Jose Cactus and Succulent Society. Place: Mayfield Mall, San Antonio Rd. and Central Expressway. Hours: 10 to 5:30 Saturday; noon to 5:30 Sunday. Admission is free.

Oakland. May 8 and 9. Annual exhibit and a plant sale table presented by the African Violet Society of East Bay. Place: Lakeside Park Garden Center, 666 Bellevue Ave. Hours: 2 to 6 Saturday; 11 to 5 Sunday. Admission is free.

San Jose. May 8 and 9. Show and plant sale by the Malihini Orchid Society. Place: Oakridge Mall, Blossom Hill Road and Pearl Avenue. Hours: 10 to 5:30 Saturday; noon to 5 Sunday. Admission is free.

Stockton. May 8 and 9. A show of miniature roses presented by the Central Valley Rose Society. Place: Sherwood Mall, 5200 Pacific Ave. Hours: 11 to 6 Saturday; noon to 5 Sunday. Free.

Millbrae. May 9. Exhibit by the Millbrae Recreation Bonsai Class. Place: Millbrae Recreation Center, 477 Lincoln Circle. Hours: 10:30 to 4:30. Free.

San Francisco. May 9. San Francisco Rose Society show. Place: Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way. Hours: 1 to 6. Admission is free.

Walnut Creek. May 14 and 15. Annual flower show and exhibit of table settings presented by the Heather Farm Garden Center Association. Place: new pavilion in Heather Farm Park, 1540 Marchbanks Dr. Hours: 1 to 5 Friday; 10 to 4 Saturday. Free.

Carmel Valley. May 15 and 16. Twenty-first annual free flower show by Carmel Valley Garden Association. Place: Tularcitos School, 35 Ford Rd. Hours: 1 to 5 Saturday; 10:30 to 4 Sunday. Tickets ($4) for a garden walk on May 16 from 10:30 to 3:30 will be sold at the show.

Grass Valley. May 15 and 16. Annual flower show presented by Chicago Park Garden Club and Nevada County Flower Arrangers. Place: Nevada County Fair-

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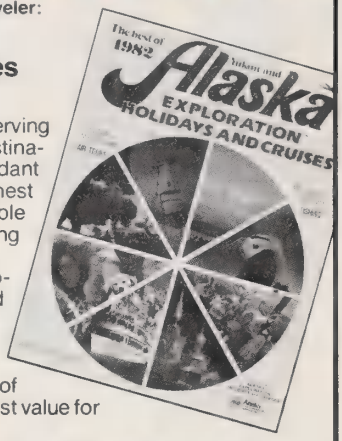

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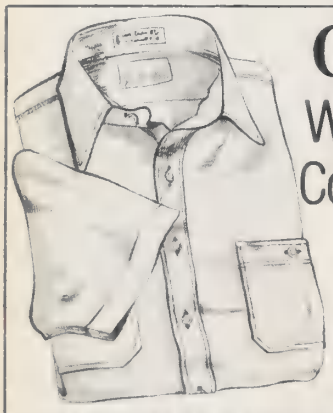

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grounds. Hours: 1 to 5. Free.

Sacramento. May 15 and 16. Show the Sacramento Geranium Club. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 5 Saturday; 10 to 5 Sunday. Free.

Ukiah. May 16. Annual show by the Redwood Iris Society. Place: Lake Mendocino Clubhouse on Lake Mendocino Drive. Hours: 1 to 5. Free.

Weott. May 16. Thirty-first annual flower show presented by the Southern Humboldt Garden Club and show by the Humboldt Iris Society. Place: Agnes Johnson Elementary School. Hours: 2 to 6. Free.

Saratoga. May 22. Craft workshop on how to grow and process dry flowers and herbs and how to blend a potpourri. Place: Saso Herb Gardens, 14625 Fruitvale Ave. Hours: 9:30 to 2:30. Fee: $ (includes supplies). Bring bag lunch and cup. To make required reservations, call the gardens at (408) 867-0307.

COLORADO

Denver. May 3. Field trip to the city nursery sponsored by Denver Botanic Gardens. Meet at 8:45 at the parking lot of 909 York St., or at 9:30 at the nursery (take I-70 to Smith Road and turn south; entrance is on the right, opposite the city jail). Fee: members, $; nonmembers, $5. Sign up early by calling the gardens at (303) 575-2548.

Denver. May 17. Class for parents on the subject of environmental awareness for preschoolers. Place: Denver Botanic Gardens, 1005 York St. Hours: 9:30 to 11:30 A.M. Fee: members, $4; nonmembers, $7.

Denver. May 20. Class on making paper from plant materials at the Denver Botanic Gardens. Hours: 9 to noon. Bring two pieces of 8½-by-11 cardboard wrapped in plastic. Fee: members, $; nonmembers, $12.

Denver. May 22. Slide show and field trip on identification and ecology of the plant communities of the foothills zone at the Denver Botanic Gardens, in cooperation with the Colorado Native Plant Society. Meet in Classroom C at 9 A.M. Bring a sack lunch. Fee: members, $4; nonmembers, $6.

Denver. May 26. Discussion of the culture of lilacs, followed by a walk of the lilac plantings at the height of the bloom. Place: Denver Botanic Gardens. Meet in Classroom C at 9:30 A.M. Fee for all participants is $2.

NEVADA

Reno. May 22. Annual Reno-Sparks flower show presented by the Reno-Sparks Executive Board of Garden Clubs. Place: Rancho San Rafael County Park, N. Sierra Street and McCarran Boulevard. Hours: 1 to 8 P.M. Free.

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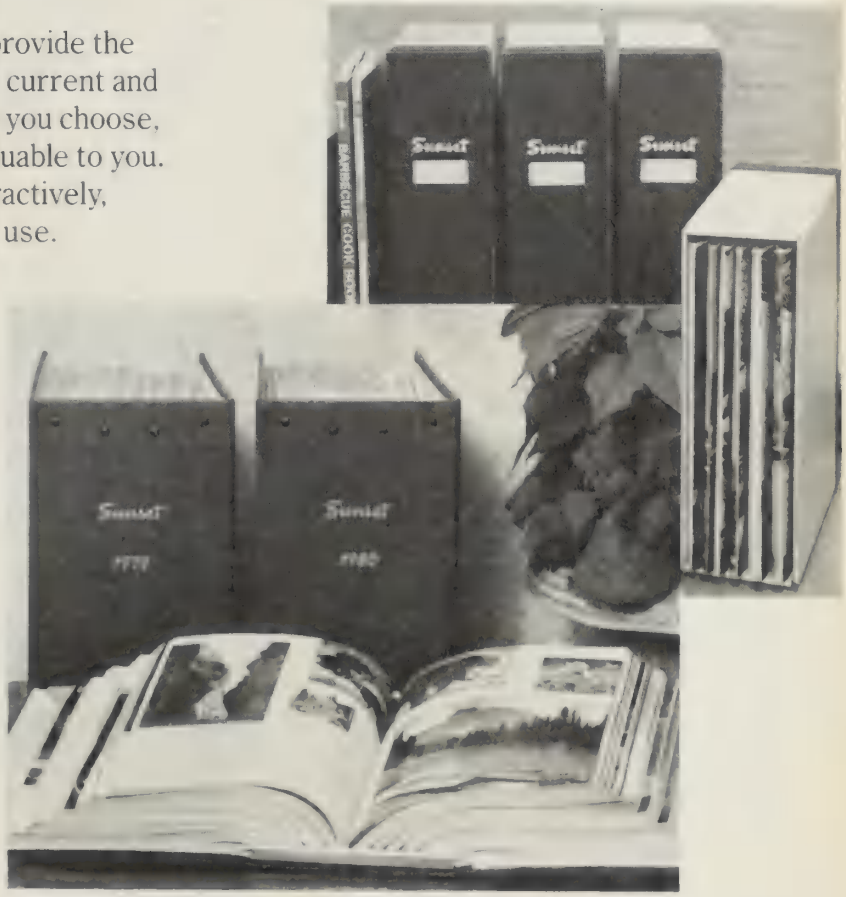

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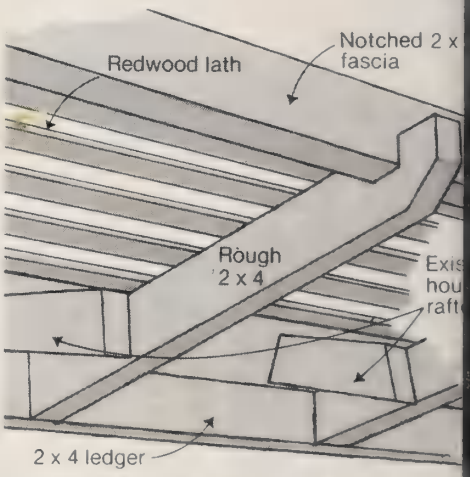
NORMAN A. PLATE

1 • *Draped with purple trumpet vine, 3-foot-wide redwood eyebrow cuts glare from light-colored house wall and concrete patio while shading the grilled window. Drawing shows attachment to house at wall-mounted ledger as well as at existing eave. Design: Chuck Paya for Susie and Steve Marglin*

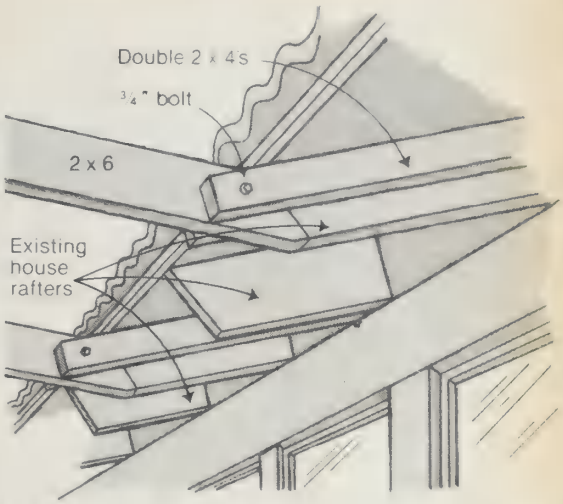
2 • *Turning a corner, twin 2 by 4's capped with a 1-by-4 rail attach to every second rafter, wrapping wisteria around edge of roof of the house shown at right*



For shade and good looks, adding on a vine arbor

Four of the five we show connect to existing house rafters. One is wall-mounted. The drawings show how

DARROW M. WATT



DON NORMARK

In early spring, sun warms side-yard deck and adjacent dining room. By summer, leafy canopy will help keep yard and house cool. Double 2-by-4 beams reach from rafters to 4-by-4 fence post extenders

4 • *Each outrigger is clamped between pairs of 2 by 4's nailed alongside every second house rafter. Grapevines are spread along cables*

dd-on arbors put vines to work for ›ur house to increase summer shade ıd help cool exterior walls. And they t flowers and harvestable fruit to easy ewing—and picking—height.

ıe four we show on these two pages are sentially eave extensions—relatively ghtweight structures attached to exist-g roof rafters. The more substantial ape arbor on the following page is at-ched to the house wall, like a standard ıtio cover.

ou start with the structure

on't underestimate the weight of vines. ıst-growing woody vines such as grape, steria, kiwi, and honeysuckle require ırdy support. Once established, they ay grow 15 or more feet per year and eventually develop stout trunks and branches capable of overwhelming flimsy structures.

House-shading trellises can be freestanding; you can also attach structures, like the ones shown here, to protruding house rafters or to ledger boards attached firmly to the house.

Normally, trellises of this sort—even short ones—need two points of support. For one that extends from the house not much more than twice the depth of exposed eaves, a ledger board plus attachment to the exposed ends of the rafters is generally necessary.

A deeper trellis needs support posts along the outer side; 4 by 4's are usually sufficient (posts should rest on concrete piers set into solid ground). Horizontal beams can be 2 by 6's, 2 by 8's, or 4 by 4's; 2 by 4's are not adequate for spans of more than a few feet.

For the actual trelliswork, you can use thinner material, such as lath or cable. But space lath at least 2 inches apart or vines will choke the openings and possibly force the strips apart.

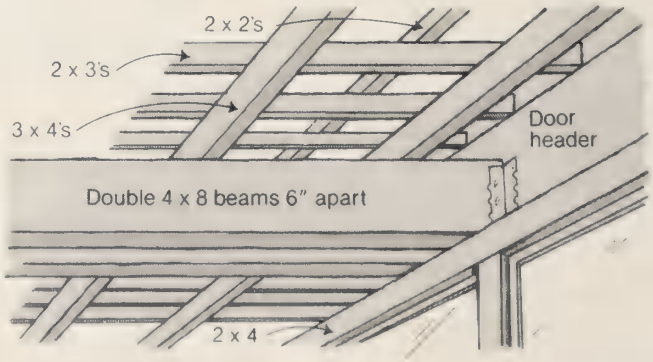
Then come the vines

Before you buy and plant a vine, consider what kind best suits your situation. Pick one in scale to the structure.

Fruits or showy flowers offer the attractive—and practical—benefits of fragrance, color, or edible crops. They may also attract bugs, birds, and bees. Anticipating these visitors—and fallen fruit—may dictate what kind of vine you

DON NORMARK

5 • *Leafy veranda offers respite on a 105° day. Grapevine-covered arbor is a sturdy grid of rough-sawn redwood supported at the outside by 6-by-6 posts; two 15-year-old vines climb each of three 19- by 19-foot arbors around Kara and David Brewer's home in Stockton, California. Architect Larry Freels gave it a timbered look to suit the house*



At the house, *double beams attach to exposed header that runs above sliding glass doors*

plant and where you place it.

Fully leafed-out, mature vines like those in the picture above are good air conditioners. They cast dense shadows without blocking breezes, as solid shade materials would. Moisture transpired from the leaves helps cool surrounding air on sizzling days. And a leafy canopy not only *looks* cool, it absorbs some heat and glare from walls and paved surfaces.

Because deciduous vines let sun through in winter, they are the commonest choice for house-attached arbors. An evergreen vine creates a year-round canopy, which in winter can darken rooms and shut out warming sunshine. But in certain situations and in warm-winter climates, this permanent cover can be valuable.

All vines need clipping, training, and annual pruning. Vigorous evergreens—such as *Clematis armandii*—need hard-hearted thinning, usually just after bloom, to keep them from developing an unattractive thatch of woody stems and twigs. Dormant winter pruning controls rambling deciduous vines and stimulates top flower and fruit production.

Don't be tempted to overplant for quicker coverage. In three or four years you—and your pruning arm—may regret it. Instead, cover bare spots temporarily with bamboo, reed, or lath until vines fill in. Or grow speedy annual vines on vertical strings or latticework panels for shade the first summer or two.

For help in choosing a plant, refer to the vine selection guide starting on page 120 of the *Sunset New Western Garden Book* and review individual vine descriptions in the encyclopedia portion of the book. When you shop, ask a knowledgeable nurseryman which varieties grow best in your area, how big they get, and how far apart they should be planted. □

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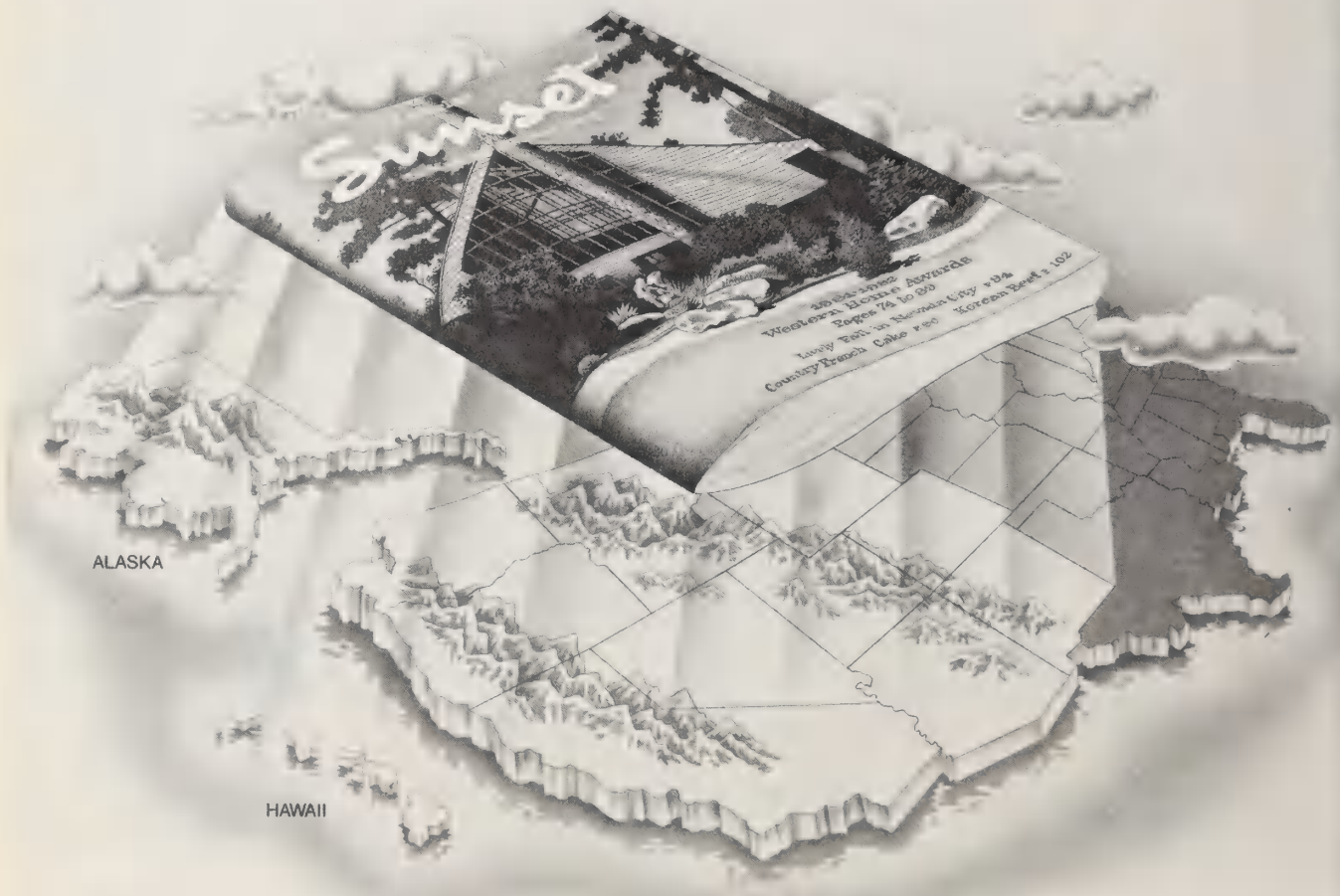
Why Sunset Magazine can give you the best of the West in '82

(and that's just about the best there is).



Sluggish economies are hard taskmasters. The lesson they teach is that when profits are hard to come by, you have to spend your sales dollar more selectively – both as to markets and customers within those markets.

Which is why we once again call your attention to the market attractiveness of Western America, and to the energy force that can turn it on for you, Sunset, The Magazine of Western Living.

Let's be fair. The West has economic problems, too. Even in the more fortunate sectors, there are plenty of companies whose earnings are not what they normally are.

But what you need to do, when you go market hunting today, is to compare the West with the rest of the U.S., examine the factors that make it hold up better during recession, and make it bounce back faster in recovery.

"The West is not immune to recession," says *Stanford University Economist Ezra Solomon*, "but it is less affected than other regions, and its ability to recover is stronger."

Look at the statistics on the opposite page and you will see the current evidence of a vitality which has made Western America a standout market, in good times or bad, ever since Gold Rush days.

Trust the strength of that market. Trust Sunset to deliver the best it has to offer.

What can Sunset do for you?

Sunset will give you market penetration, selectivity and action.

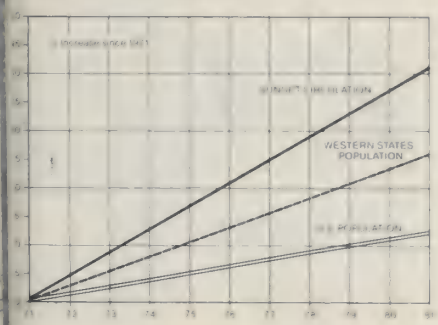
It will put you in front of 6.1 million of the best customers in the thirteen Western states, including one out of every seven heads of household—a mass audience by any measure. (Readership figures: MRI, Fall, 1981.)

Best customers? Absolutely. By any yardstick—per capita income, expendable income, home ownership, multi-car ownership, retail purchases, travel expenditures—Sunset's readers exceed the high Western averages (which, in turn, exceed the national averages).

No single advertising medium, print or electronic, is as dedicated to serving the unique lifestyle throughout the thirteen Western states as Sunset, The Magazine of Western Living.

Sunset's momentum will work for you.

1981 has been Sunset's most successful year in both circulation and advertising revenues. Since 1970, our circulation growth rate has been three times that of the West's population. Circulation sales have contributed to Sunset's profit every year since 1936.



Before May, 1981, no single Sunset issue had reached $3 million in net advertising revenue. For the year, not the best for the publishing industry as a whole, Sunset has enjoyed three of those $3 million issues, and is ahead nearly 9% in total lineage.

That resilient country called the West.

1. If the West were a separate country, it would rank sixth in the world in Gross National Product, exceeded only by the total U.S., Soviet Union, Japan, West Germany, France. Its GNP growth rate 12% against 10% for the rest of the U.S.[1]
2. Its per capita income is almost 10% above that of the rest of the U.S., and its EBI (Effective Buying Income) is 11.3% higher.[2]
3. Its retail sales are higher by $266.00 per capita per year, adding an extra $11.7 billion to the total Western marketplace.[2]
4. Its population growth in the 1970-1980 decade was more than 2½ times that of the rest of the country, and will continue to expand 3 times faster. Nine of the ten fastest-growing states are in the West.[1]
5. Young consumer groups are also growing faster in the West. Its 25-34 group will grow by 25% in the next 10 years against 21% in the U.S., its 35-45 group by 56% vs. 49% for the U.S.[3]
6. Energy exploration in the West is booming, due partially to decontrol of oil prices. 46% of the nation's coal reserves, 47% of its crude oil, 24% of its natural gas, and 93% of its uranium are in the West.[4]
7. Oil and gas exploration added 2500 new jobs in 1981. Employment gains in energy, non-energy minerals, and defense are forecast to increase by 50% between now and 1986.[1] No other region can compare.
8. The West currently enjoys 21% of the defense prime contract awards, and 30% of the expenditures for Research and Development. Combined expenditures in these two categories are forecast to increase by 30% in 1982.[5]
9. The West is the fastest-growing trade area in the world. Its TransPacific trade already surpasses the entire U.S. trade with the Common Market.

Sources: (1) First Interstate Bank (2) Sales & Marketing Management, Survey of Buying Power (3) American Demographic Magazine (4) U.S. Dept. of Interior (5) Wells Fargo Bank

TO READERS OF SUNSET MAGAZINE.

We think you might be interested in this message, which appeared earlier in The Wall Street Journal and other business publications. It is part of our advertising sales program, administered from our headquarters in Menlo Park, California, and through nine sales offices across the country. Without Sunset's advertisers, the magazine you are reading would be prohibitively costly. And it would not be as interesting or useful. Like our readers, Sunset is selective about advertisers. Many are not solicited, and some (liquor, tobacco, others) are not accepted. We are very proud of those that do appear in Sunset.

Bill Lane Publisher

Ad pages already booked for the first quarter, 1982, are ahead of 1981.

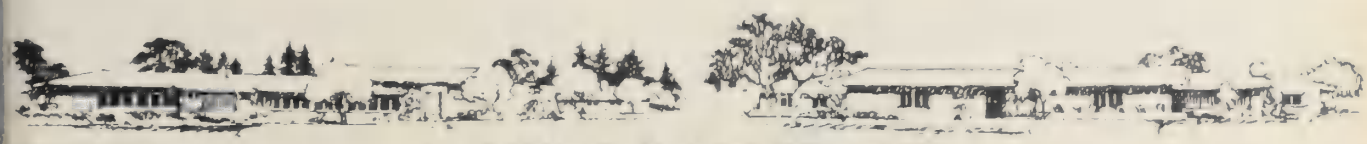
This record has even more impact when you consider that some 32 major categories of advertising—liquor, tobacco, personal products and pharmaceuticals, for instance—are not accepted by Sunset, not out of prejudice, but solely because they do not fit the magazine's editorial environment.

And there's the key. It's because editorial and advertising work together so harmoniously that every advertising dollar you put into Sunset generates such an impressive ROI.

With Sunset Magazine as your market force, you can capitalize on Western America's strengths as no other medium or combination of regional magazines can enable you to do.

Bold statements? You bet. So why don't you make us prove them? Call your nearest Sunset representative and ask for a presentation tailor-made to your specific product or service, and your specific marketing challenge.

You'll not only enjoy it. You can profit from it.



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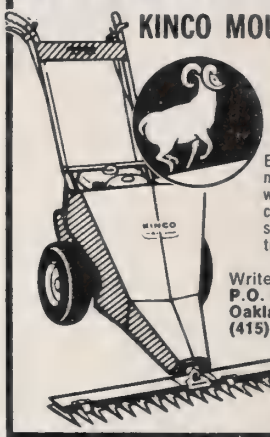

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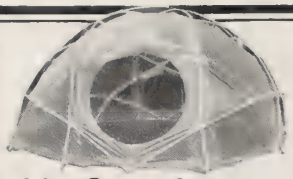

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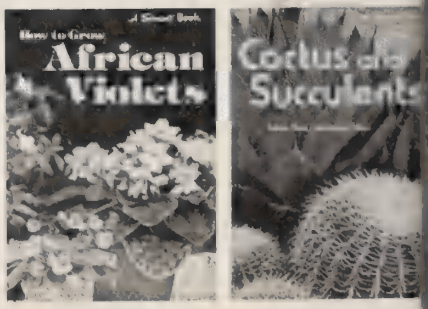

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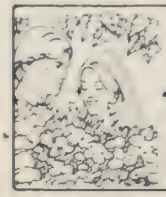

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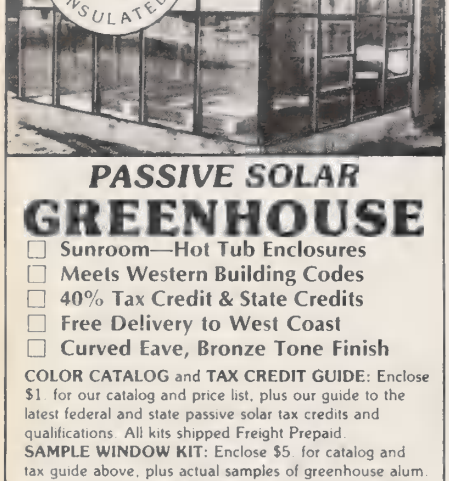

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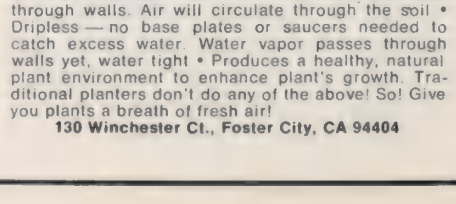

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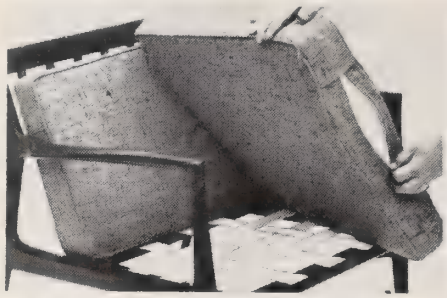

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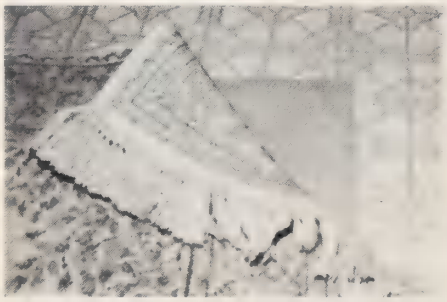

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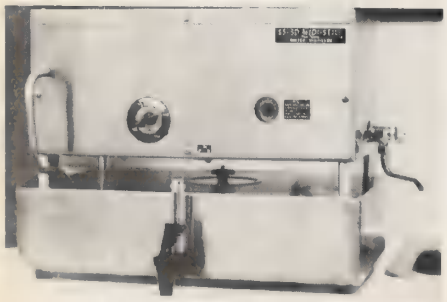

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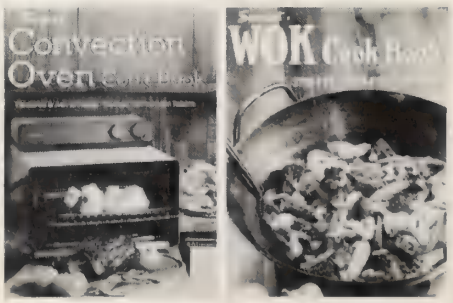

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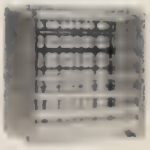

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NORMAN A. PLATE

Looking east: *gently curved lawn is bordered in part by a dry stream bed*

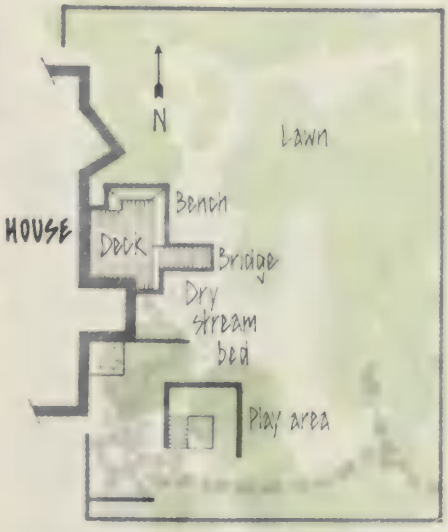
Denver redo . . . less lawn, more plants

Within three years, this Denver garden vent from neglected grass and unloved hrubs and trees to a beautifully landcaped lawn. The new owner, landscape esigner E. Alan Rollinger, redesigned it o suit his interest in water conservation nrough proper plant selection and culural practices.

The old lawn was cut to a much smaller ize and restored, but it remains large nough for the children to romp on. A ew deck provides outdoor living space.

Around the lawn Rollinger set out an npressive variety of plants: 84 species f woody plants, annuals, perennials, nd bulbs. Some are ideal for the Denver limate; others are there on trial.

Some of the less-common (in Denver) lants he's trying with success include African daisy (*Arctotis*), California oppy, gazania, *Hypericum calycinum*, agoda dogwood (*Cornus alternifolia*), *enstemon pinifolius*, silver linden (*Tilia omentosa*), and *Viburnum sieboldii*. □



Sketch *shows how lawn and plantings create a park-like effect*

Looking south: *peninsula of perennials and ground covers cuts into the freeform shape of the lawn*

Low deck's *bridge over stream bed connects to lawn. Young shade tree growing through deck is white ash*

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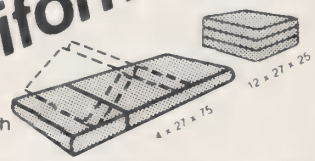

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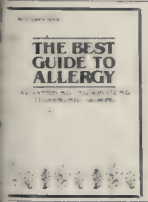

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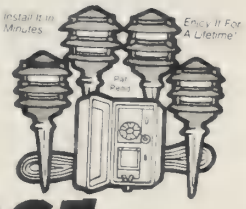

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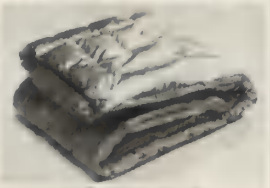

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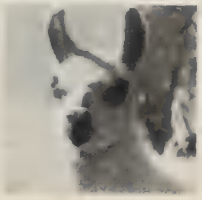

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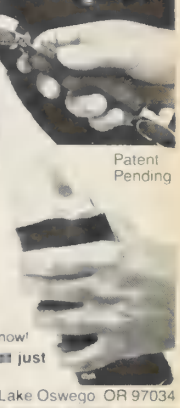

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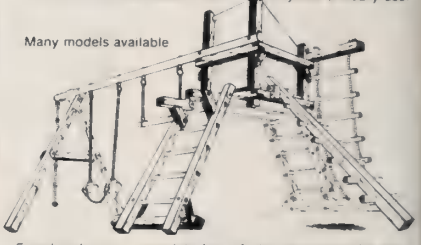

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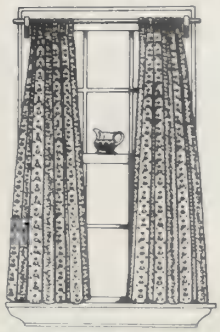

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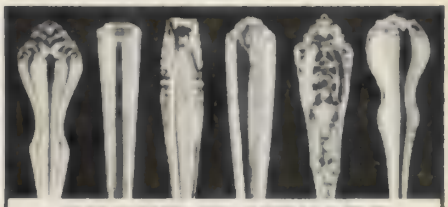

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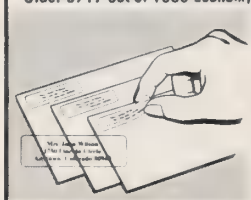

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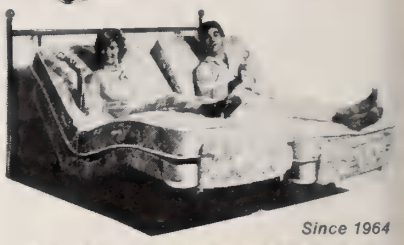

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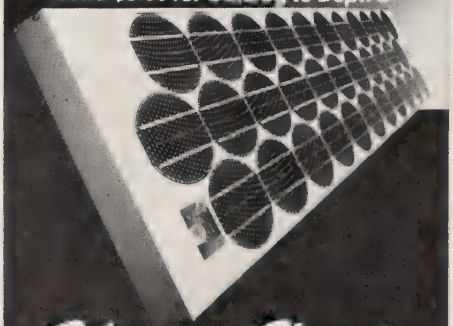

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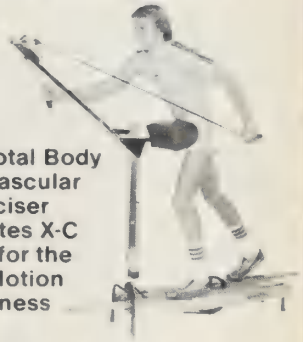

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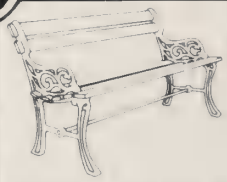

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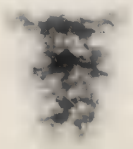

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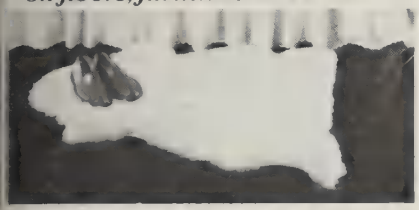

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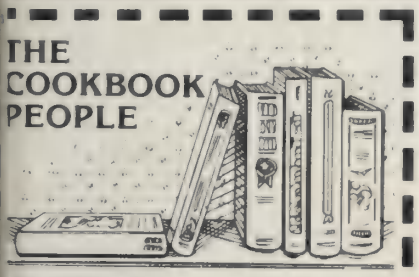

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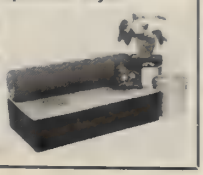

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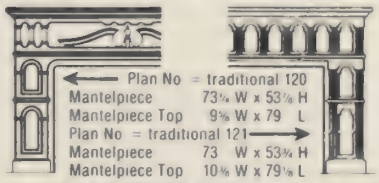

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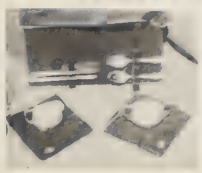

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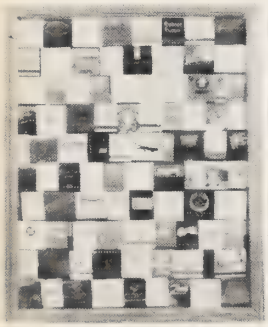

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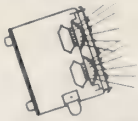

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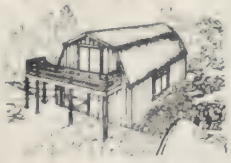

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KEN ARNOVE

Rail travel: back on track?

Ever since Amtrak was formed in 1971, experts have predicted tha intercity passenger trains would soon go the way of passenger pigeons.

But in fact intercity rail travel here in the West seems to be on th increase. Vacation travelers are rediscovering the train (peak ridershi on most runs occurs during vacation periods and over weekends). An in California, state and local agencies are looking at intercity trains t serve commuters as well as destination travelers.

Last year ridership on Amtrak's nine Western routes (34 daily trains increased 12 percent. The *Coast Starlight* between Seattle and Los An geles is the most heavily used overnight train in the entire system—las year it carried nearly 600,000 passengers. The *San Francisco Zephy* runs at capacity most weekends on its Oakland - Reno leg. In summer reservations are a must on the Seattle - Salt Lake City *Pioneer*.

Service is gradually improving. New bilevel Superliner cars with reclin ing seats and large windows have been added on all Western routes they help smooth out rough sections of track, which are owned an maintained by private freight-hauling railroads. Ongoing problems making telephone reservations can be frustrating, food is often lousy.

Route options are increasing. In late 1979, the *Desert Wind* begar service between Los Angeles, Las Vegas, and Salt Lake City. Startin April 25, the *Coast Starlight* is being rerouted through Sacramento an Chico. California has helped fund expanded service on the *San Joaqui* between Oakland and Bakersfield (with bus link to Los Angeles), an last year joined with Amtrak to revive overnight service between north ern and southern California via the coast after a 13-year lapse.

In addition, California agencies have expanded commuter service o intercity trains. The state's biggest success has been a joint effort wit Amtrak to upgrade Los Angeles - San Diego rail service. Since 1976 four new trains have been added to the original three, and now as man as 110,000 passengers a month ride the *San Diegan*.

Commuters have also been a big factor in the immediate success of th San Diego Trolley (see below). Financed by the state, the light rail trolle carries almost 12,000 passengers a day.

Because of these successes, rail expansion in California is likely to con tinue. Plans are on the drawing boards for commute service to link L.A with Oxnard this year and with San Bernardino in 1983. Daily train from San Francisco to Monterey are possible by 1985. Amtrak is als studying the feasibility of high-speed bullet trains on the Los Angeles San Diego corridor by 1990.

Other states could follow. The Railroad Passenger Act that create Amtrak helps states finance new rail programs. With new service, th state pays half the capital improvements (stations, platforms) and hal the operating deficit; Amtrak pays the rest and provides all rolling stock

As population in the West's metropolitan areas and fast-growing rura centers continues to increase, intercity rail links will become increasingl important. California's light rail experiment and innovative partnershi with Amtrak seem to be working. We say, "All aboard!"

WINDOW ON THE WEST: *"Tijuana Trolley"*

Not a train, the San Diego Trolley is the first of what may become a new generation of electric intercity rail lines here in the West. Built on an abandoned railroad right-of-way, the 16-mile line uses German-made articulated cars to move commuters, shoppers, and tourists between downtown San Diego and the Mexican border at Tijuana. Though fare is just $1, after 11 months of daily operation the system has proved so popular that it may be self-supporting by this summer.

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The Magazine of Western Living

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The Cover Story

Jewel-bright garden pavilion casts a shimmer across pool waters at dusk. The airy post-and-beam addition opens two walls of glass doors to brick decks. For an inside look at the indoor-outdoor room, turn to page 98. Photograph by Glenn Christiansen

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NORMAN A. PLATE

At less-used Wunderlich, *you pass a rambling old stable before heading into wooded trails*

Familiar Huddart Park *has gentle slopes for picnicking*

Ridgeline trail now links two peninsula parks

On the heavily populated San Francisco Peninsula, open patches of land for new parks and trails are nearly impossible to acquire.

But one recent addition, Wunderlich County Park above Woodside, has expanded its trail network, including a new 5-mile link to its better-known neighbor, Huddart County Park.

Together, the two parks offer 40 miles of trail in almost 2,000 acres of fairly wild, yet close-to-home mountainside territory. Elevations range from 500 to 2,000 feet (to the Skyline Ridge) and encompass grassy meadows, chaparral, and tall redwoods. Unusually heavy winter rains have been tough on trails in most Bay Area parks, these two included, and some trails here may still be under reconstruction; obey detour signs.

The two parks were once part of the 12,000-acre Rancho Cañada de Raimundo, and their redwoods were heavily logged out during the gold rush. By 1870, most of the big trees were gone; what you hike through today is largely second-growth redwood forest.

A good way to explore these parks is to begin at 973-acre Huddart Park. It's a busier park, especially on weekends, and has 15 miles of trails, as well as picnic tables and rest rooms. You can warm up on a short walk on either of two nature loop trails. The 1-mile Chickadee Trail near the park office is level and shaded (pick up a free self-guiding leaflet at the office); the ½-mile Redwood Trail begins near the Oak Picnic Area and winds

DAVID STUBBS

Hiking guide authors *Frances Spangle and Jean Rusmore check out Skyline Trail, which now links two San Mateo County parks*

GREGG MANCUSO

Fund-raising *garden party in Sacramento serves 800 guests at hot and cold buffets. For the host group's menu and logistics, see page 86.*

We went big-partying

In almost every *Sunset*, you'll find a query inviting readers to report how they handle some problem others may share.

Last year, for example, we asked about staging a large-crowd party. Some 100 readers responded, with advice on everything from setup to cleanup. Assistant editor Linda Anusasananan reviewed each response.

One veteran host we heard from is the Family Service Agency of Sacramento, whose members give an annual fund-raising garden party for up to 800 guests. You may not want to invite quite that many, but if you're planning a party for 50 or more, the article on page 84 can help. □

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through forest and creekside flora.

To get to the Skyline Trail, which hea south from Huddart to Wunderlich, yo can walk about 2 miles up Archery Fi Trail (it rises steeply). Then follow th Skyline Trail south along the ridge f about 3 level miles. Skyline Trail leav you at the top of Wunderlich Coun Park, a fairly undeveloped 942-acre pa with some 25 miles of trails.

From this point, you can backtrack f a 10-mile round trip to the Hudda parking lot, or continue down throug the redwoods on Alambique Trail 4 mil to Wunderlich's parking lot.

Both parks are near Woodside (25 mil south of San Francisco off Intersta Highway 280). Take State 84 (Woodsi Road) west to Kings Mountain Road an follow signs to Huddart or continue o Woodside Road to Wunderlich. Both a open daily during daylight hours; there a $2 entry fee for Huddart.

A new hiking guidebook explores the parks and dozens of others. *Peninsu Trails* (Wilderness Press, Berkeley, 198 $8.95) was written by Jean Rusmore an Frances Spangle, who have hiked ever trail listed. It covers the parks from Da City south to Saratoga and includes ph tographs and park maps.

Early views of Yosemite on display in Fresno June 12 to August 8

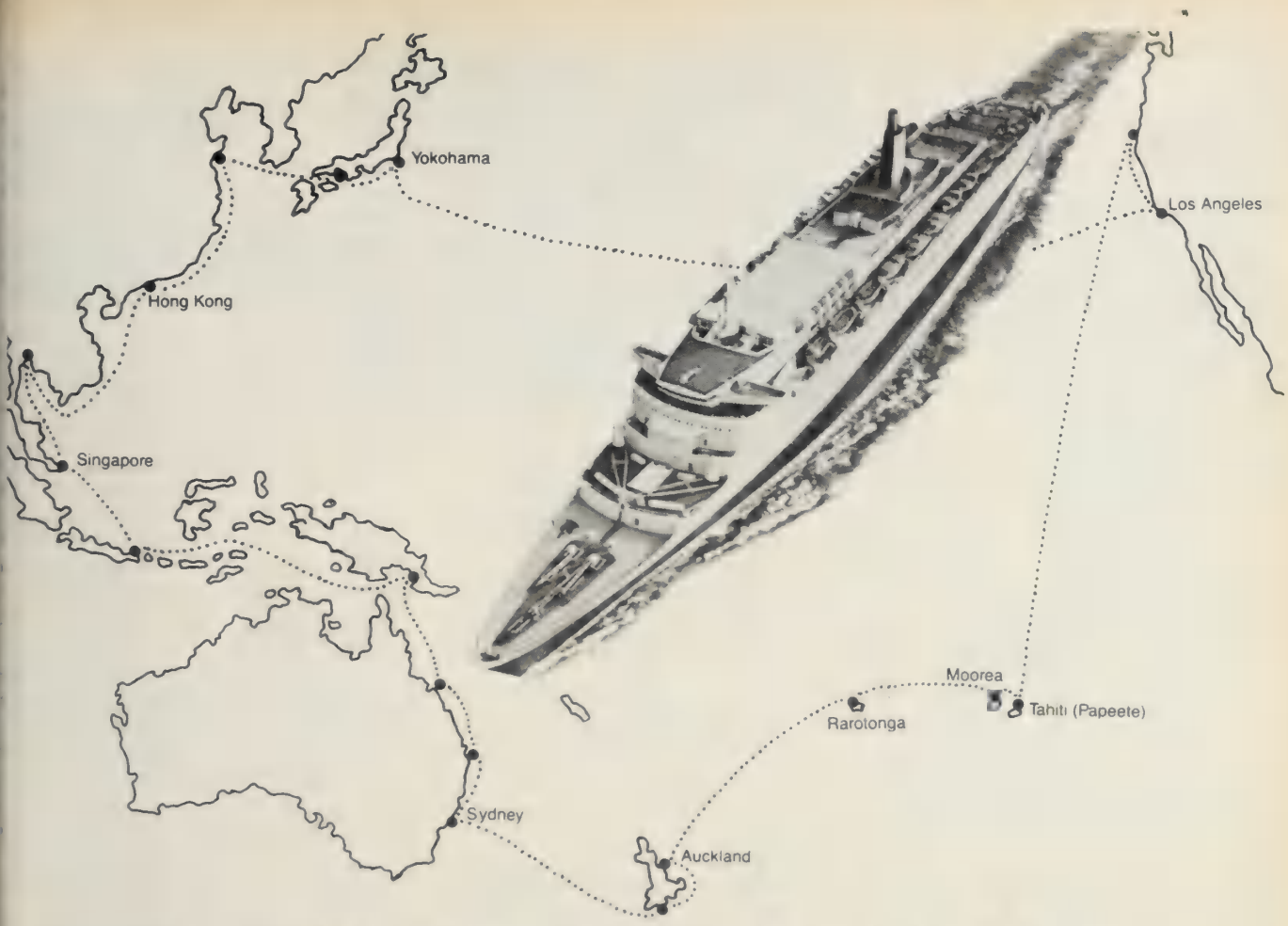
In 1864, the Yosemite Grant (the nucleu of the later national park) was designate by congressmen who had never seen except through paintings, drawings, an photographs. These representations ha convinced them of its unique beauty.

A major show of Yosemite in 19th-cen tury art opens this month at one of th park's gateway cities—Fresno—to con tinue through peak tourist season. It in cludes works collected from over th state, all from the period of 1855 to 1900 when romantic landscape art was in it heyday. You'll see William Hahn's famil iar *Yosemite Valley from Glacier Poin* works of Albert Bierstadt, Thoma Moran, and Thomas Hill, and the 185 sketches of Thomas Almond Ayres—th first made of the valley.

The show is at the Fresno Arts Center a Clinton and First streets. Hours are 9 t 6 Tuesday through Friday, noon to 4:3 weekends; admission is $1 for adults, 5 cents for children under 17.

Learn the pleasures and science of wine in the Napa Valley

Taught by professional winemakers lik Louis Martini and Joe Heitz, the Napa Valley Wine Library Association's three-day courses on wine appreciation usually fill up early. But you can still enroll i one of this summer's classes, which star June 4, 11, 25 and August 6, 13, 2 (more dates—including July weekends—



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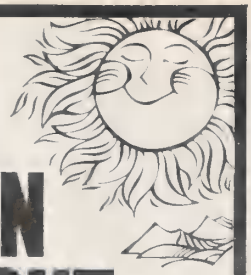

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Denver's new-old museum

Denver's oldest house has become one of the city's newest museums. It's part of 12-acre Four Mile Historic Park on Cherry Creek, 4 miles from the center of town.

Built of hand-hewn logs in 1859, the year Denver was founded, Four Mile House functioned as a hostelry for stagecoach travelers heading west. Levi Booth bought the property in 1864 and turned it into headquarters for a 600-acre farm and stock ranch. Booth added brick and clapboard wings to the log cabin in 1883, doubling its size and making it a textbook example of frontier building methods.

Today the house looks much as it did in the 1880s, down to the Victorian furniture, lamps, and linens. Plans call for growing field crops as well, to complete the illusion that Booth and his family have just gone into Denver for the day.

The park is open 10 to 4 Tuesday through Friday, noon to 4 Saturday, 1 to 4 Sunday. Admission is $2 for adults, $1 for seniors, 50 cents for children 6 to 15. Reservations are necessary only for large groups; call (303) 399-1859. Four Mile House is at 715 S. Forest Street, off Leetsdale Drive in the Glendale area. □

For travel planners, a June 1982 check list

Flowers and falls in Brazil. From September 1 to 15, an escorted first-class tour offers visits to a São Paulo coffee plantation, Iguaçu Falls, and botanical gardens in Rio. Land cost of $1,445 includes hotels, overland transportation, continental breakfasts and one meal daily, field lectures. Optional are side trips out of Rio. Similar tour will be offered in April 1983. Write to Brazilian Views, 201 E. 66th St., New York 10021; or call (212) 472-9539.

Yachting in Hawaii. You tailor your own eight-day cruise for up to six persons on a 40-foot cutter with crew. Yacht has two double berths in separate quarters, two single berths. Cost of $1,000 per person (four in party) includes cruise, meals (also snacks, drinks), sailing instruction, land excursions. Best season is May through November. Write to Breakaway Adventures, Box 183, Grants Pass, Ore., or call collect (503) 476-7399.

Bike-tent ramble in Holland. Three- or five-day trips from Eindhoven cost $12 a day per person for rental of three-speed bike, reservation in a six-person campground tent, transportation of luggage and sleeping bag, loan of cooking equipment; cost decreases if more than two are in party. Season is May 15 through August 31. Write to Netherlands National Tourist Office, 681 Market St., San Francisco 94105; (415) 781-3387.

Independent car tours in Europe. Rent a compact car (with unlimited mileage) for a one- or two-country trip of 9 to 23 days. You're given a suggested itinerary for driving between first-class or deluxe hotels (many are mansions and castles), with your room reserved. Cost is $63 to $101 per day per person for a party of four, depending on country and hotels. Ask your travel agent or call (800) 323-7600 for Travel Plans International Great Car Tours brochure.

Air ambulance prepaid. Travelers who become seriously ill or injured abroad and who cannot return by regular commercial airplane can benefit from having joined an emergency help organization (see July 1981 *Sunset*) that subcontracts air ambulance service. Air-Evac has its own; annual cost is $45 (Mexico, Caribbean) to $145 worldwide. Write to Air-Evac, 296 H St., Chula Vista, Calif. 92010. Or call (714) 425-4400; (800) 854-2569 outside California.

What a travel agent can do for you: Provide information on tours; help you plan a trip; reserve space on air, rail, bus, and ship lines; make hotel, ranch, and resort reservations. Travel agents usually do all this without charge, but they do charge for "custom" tour service.

Sunset School & Camp Directory

Camps

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- Summer School, beautiful camp setting near Lake Tahoe, CA
- Morning Classes: individualized academic programs, credentialed staff
- Complete afternoon recreation program
- Co-ed classes for gifted, average, LD, and foreign students
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- Upper School (grades 9–12)
- Contact

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Mountain Ranch Vacation — boys and girls 8-14. Our 26th season, offering a small group a family atmosphere on an operating horse and cattle ranch. Activities include water skiing & instruction—horseback riding & instruction—camping—hiking—swimming—working with farm animals & young horses, etc. For brochure: **PO Box 214, Taylorsville, CA 95983 (916) 284-6681**

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Maine 04627
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Camps

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Phone (415) 967-8612

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55th Yr.

High Sierra Camp, Boys & Girls. No. of Lake Tahoe, Portola, CA (Ages 7–14). 2 or 4 wk./longer, 6/20–8/28. Indiv. prog. **Fish,** canoe, sail, **waterski on our 14-acre lake.** Riflery, Archery, **Horses,** Pack Trips, Soccer, Crafts, Skate Bd., Gymnastics, Motocross, Mat. Staff. Ap. $287/wk. Bro: R.S Stein, 4009 Sheridan Ct., Auburn, CA 95603. 916-823-9260/408-243-1867 **Reno Air. Bus**

GIVE YOUR CHILD A WONDERFUL SUMMER on our private island in Washington State's sunny San Juans. Small group: boys, girls 10-15. Teepees, pool, most sports. French classes. Outstanding French. American staff, food, facilities. Fully accred. **Canoe Island Camps, Inc.,** Eastsound, WA 98245. (206) 376-4393.

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Girls 8-12 Teens 13-16 Ladies 17-29

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Sunset School & Camp Directory

Camps

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Special, Separate Programs For Each Age Group

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11th Year

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Camps

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Prog. I Oceanography, composition, drama, math, art, study skills, nortel and scuba diving, riding, packtrips, shop. Coed grades 2-8. Three and six weeks. June 20-July 31. **Prog. II** Special classes in study skills, tutorial math, writing, SAT prep., horsemanship, camping, rock climbing, Grades 9-12. June 20-July 24. WAIC & ACA accred. Eq. Opp. adm., pol. Cat.: spec. prog. **Box L, 723 El Paseo Rd., Ojai, CA 93023 • 805-646-1423**

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53rd Consecutive Summer
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Camps

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OUR 20th YEAR

Co-Ed. for grades 9-12 • Earn Academic Credit
All Basic Liberal Arts Courses
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SURF, SAIL, SCUBA, WATER SKIING!
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* Subject to change

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Sunset *School & Camp Directory*

Camps

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Directors

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Camps

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★ Sports
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Lose 20-45 lbs.

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WHITTIER COLLEGE
"In Southern California"
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Thelma Hurwitz ACA Certified Camp Director
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At Whittier College, Whittier, Calif.
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Index of Directories

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beginning page 169

SHOPPING CENTER
beginning page 238

Sunset School & Camp Directory

Camps

80 forested acres between Mt. Shasta and Mt. Lassen. Coed 6-16. Horsemanship, backpacking and mountaineering, swimming, sailing and canoeing on private lake, river trips, farm animals, alternate energy projects, music, sports, organic gardening, natural foods kitchen. ACA ACCREDITED. 1 to 8 week sessions June 26th to August 21st. Directors: Peter and Laurie Clark, Vernon and Jodi Tallmon, 10127 Witter Springs Road, Witter Springs, CA 95493. (707) 459-5960 (707) 275-2843

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Write Ron and Lynn Garrison, Box 985-S, Auburn, CA 95603; Phone (916) 885-8856.

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Program includes: our own well-trained string of western horses; vaulting on horseback (exciting); swimming; tennis; archery; soccer; kid's cooking; woodshop; ceramics; farm; barn theatre. A Joyous Christian Camp.

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Computer training, swimming, tennis, gymnastics, nature.
Five 2-wk. sessions: June 20–Aug. 28. Write:
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Star Route, Santa Barbara, CA 93105

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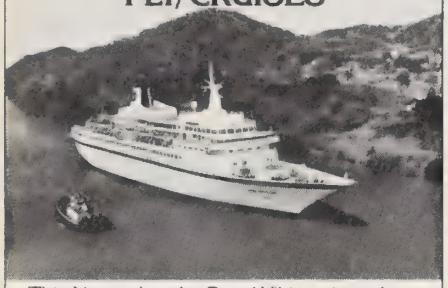

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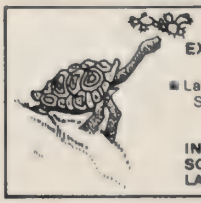

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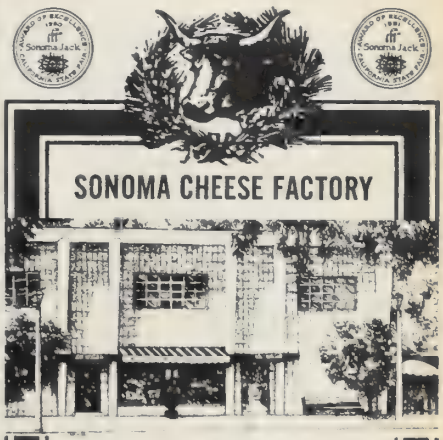

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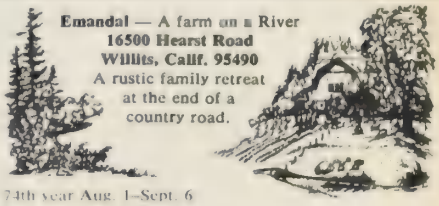

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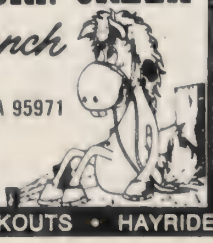

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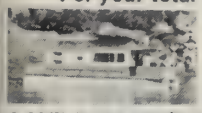

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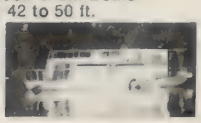

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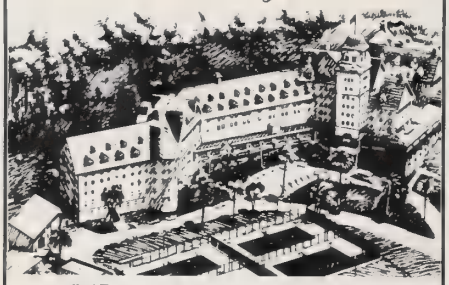

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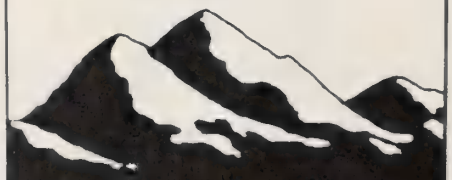

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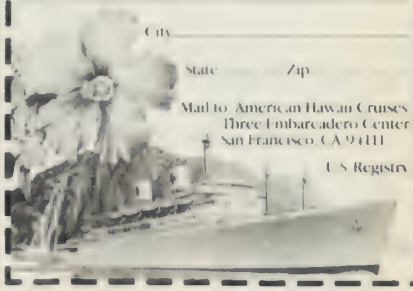

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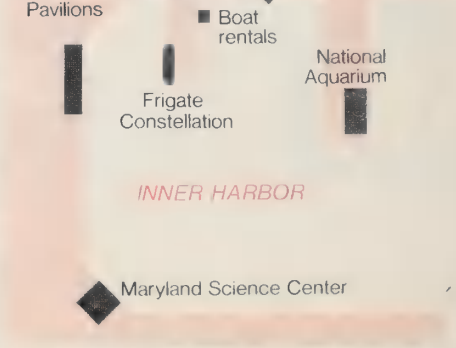

Easy circuit *of Inner Harbor by rented pedal boat (Harborplace's Pratt Pavilion is in background) takes you past key points shown on map*

A stroll-tour of Baltimore's revitalized waterfront

Access to waterfront has been the key attraction in a number of urban revitalization programs in recent years on both the west and east coasts.

In Baltimore, under the vigorous leadership of Mayor William Donald Schaefer, the entire crescent of the Inner Harbor area has been reclaimed as a major urban amenity—and people are returning to the city to enjoy its historic waterfront in new ways. If you haven't been there in a while, you might plan a stop next time you're in the East to see what's bringing so many suburban refugees back downtown.

Biggest newsmaker was the opening last summer of the National Aquarium—a dazzling state-of-the-art facility which rises like a glassy fin at the northeast end of the Inner Harbor. Here you'll see more than 5,000 aquatic denizens in a seven-story, multi-sensory exhibit space topped by a tropical rain forest.

But the revitalization effort has been underway since the 1960s, when then-new Charles Center began to attract business downtown again; completion in 1979 of an attractive new convention center and several hotels solidified these gains.

Out-of-town visitors find much to enjoy within walking distance of the new Inner Harbor hotels and business facilities. There's a delightful brick-paved waterfront promenade on which you can stroll the circumference of the Inner Harbor; at several well-marked spots along this walkway, you can also pick up a 50-cent water taxi ride to shortcut across the crescent.

Walking circuit. Starting south, on the lower slopes of historic Federal Hill, is the Maryland Science Center, which offers hands-on experience in the physical sciences. Admission is $2.50 for adults, $1 for children; open 10 to 6.

Heading north, you'll pass an aromatic old-timer, the McCormick Spice Building, on your left; on your right are the Finger Piers, where small craft often tie up for sun-lazy picnicking (you can also shuttle from here to Fort McHenry on the *Baltimore Defender*).

Next landmark is the Light Street Pavilion. It's one of the pair of two-story

structures that makes up highly popular, two-year-old Harborplace, a cooperative venture between the city and the Rouse Corporation. The Pratt Street Pavilion, mate in the pair, is just around the corner. Harborplace houses numerous small retail shops, plus restaurants and food stands that represent the foods of the world, especially the American South. Pick up a take-out snack (like fried sweet potatoes) or sit at water's edge for a more sedate meal (don't neglect Maryland's blue crab). Many Harborplace restaurants have live entertainment at night.

Just wharfside of the Pratt Pavilion is the U.S.S. *Constellation*, the first ship in the U.S. Navy, now serving as part of a walk-on maritime museum. From its dock, you could board the *Baltimore Patriot* for a 1½-hour tour of the harbor; or continue just east of the dock and rent a pedal boat or a sailing dinghy.

Looming above the rental fleet is the 32-story World Trade Center, a pentagonal tower rising 430 feet above the water. On its 27th floor is an exhibit on the city's history, as well as a glass-walled observation deck overlooking the entire port and much of greater Baltimore.

Thrust south of the center is the futuristic-looking pièce de résistance—the National Aquarium. The shimmer of its glassy volumes of aquatic environment, the recorded "sounds of the deep" that surround you as you pass on silent escalators from one space to the next, all stimulate awareness and even do much to relieve tired feet. Admission is $4.50 for adults, $2.50 for children; hours are 10 to 5 Monday through Thursday, 10 to 8 Friday through Sunday.

Urban homesteading. Housing redevelopment has also been a major goal of Mayor William Donald Schaefer's downtown revitalization campaign. Several years ago, the city auctioned off about 200 condemned row houses for a dollar each to buyers willing to upgrade them and live there themselves. These attractive owner-occupied restorations are now called the "dollar-houses," and you can see many in the Otterbein area two blocks west of the Inner Harbor between Barre, Lee, and Hanover streets. □

Unpeeling masonry mask *reveals brick arches over windows in simple Federal row house in Baltimore's changing Otterbein area*

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DON NORMARK

"Country furniture" *here includes hooked rugs, quilts, handmade pine furniture*

Art and antiques up in Vancouver

Offering everything from 18th-century antiques to Indian and Eskimo art, an 11-block stretch of Granville Street south of downtown Vancouver, B.C., is the city's recognized gallery row. An easy stop for travelers, the district is between W. 5th and W. 16th avenues, just south of Granville Bridge and city center.

Most of the area's antique stores (about a dozen) are concentrated at the north end of the street; the majority of its two dozen galleries are toward the south end.

In between are a dozen design shops and furniture stores, along with nine Oriental carpet dealers. Several more galleries are on side streets.

Galleries tend toward contemporary Western Canadian art—silkscreen prints from $25, paintings from $100, sculpture. But a few also deal in paintings by American and European masters.

The *Arctic Loon Gallery*, 3095 Granville, carries both Indian and Eskimo art.

Antiques run heavily toward English furniture, candlesticks, china and glassware, jewelry, brasswork. *Tappit Hen* (3050 Granville) has a reputation for high-quality offerings—Georgian silver, 18th-century furniture, Victorian pewter.

Several stores advertise "country furniture." At *W. J. Andrew's* (3097 Granville), you can find apple baskets ($1 up), enamel coffeepots ($16), hand-woven mats and runners ($5) from Quebec, Nova Scotian quilts ($300 up), even hand-carved wooden duck decoys ($30 up). For antique Canadian furniture, try *J. P. Pine*, 2950 Granville.

Laidler's (2354) does antique reproductions and restorations. Other specialty shops restore stained glass and jewelry, and frame your prints.

Most galleries are open 10 to 5 Monday through Saturday. Park on Granville or side streets, or take city bus #20-Granville from downtown. □

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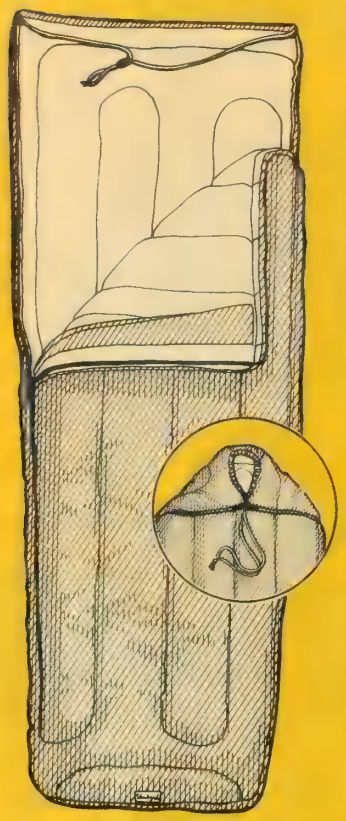

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PETER CHRISTIANSEN

Southern Drum Dancers *performed in ceremonial dress of Plains Indian tribe during last year's Trade Feast at the museum*

Indian doings at Marin's Miwok Park

On the site of a once-thriving Coast Miwok village now stands the Marin Museum of the American Indian. Located in Miwok Park in Novato, 40 miles north of San Francisco, the museum houses a fine collection of artifacts, hosts traveling exhibitions, and offers education programs.

Built in 1973 to display artifacts found on its site, the small museum contains arrowheads, basketry, and photogravure prints by Edward S. Curtis. An exhibit of 19th-century Bolivian textiles will be on view the first two weeks of June; one of contemporary Indian art will follow. A gift shop sells Indian-related art.

To reach the museum, at 2200 Novato Boulevard, take the San Marin Drive/Atherton Avenue exit off U.S. 101 and drive 2½ miles west. Or take Golden Gate Transit bus 50 from San Francisco. Hours are 10 to 4 Tuesday through Saturday, noon to 4 Sunday. Donations are 50 cents for adults, 25 cents for children.

Preschoolers to adults may participate in various educational programs emphasizing Indian culture; you might grind acorns, carve soapstone, or take a field trip. A recently introduced program for children includes a mock archeological dig where techniques are learned.

For details on exhibits, programs, or membership, write to the museum at Box 864, Novato 94948, or call (415) 897-4064 between 10 and 4 weekdays.

Pomo Indian *Laura Somersall works wonders with sedges as she weaves baskets at Trade Feast*

Miwok Park's 35 acres contain a meandering creek; within earshot of its babble is a picnic area. There are also a nature trail and a native plant garden.

Trade Feast in early June. At the 10th annual Trade Feast on June 5, Indian dancers, a soapstone sculptor, and a Pomo basket weaver will be among the featured guests. A puppet show will portray an Indian myth. Food and game booths will be set up, too. Hours will be 9 to 4; admission is free. A shuttle bus will carry feastgoers to the museum from San Marin High School, 2 blocks away. □

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DOUG MCNAIR

Artfully patterned baskets *are among hundreds of items on display at museum in northwest Wyoming*

Deft fingers *demonstrate loom beadwork*

Indian art in Grand Teton . . . 800 pieces

Presented more as art than artifacts, the American Indian jewelry, clothing, basketry, and weapons you'll see at the Colter Bay Indian Arts Museum north of Jackson, Wyoming, are worth a look by visitors to Grand Teton National Park.

Striking photograph *of Indian girls was produced by projecting image onto cedar panel treated with photosensitive chemicals*

The David T. Vernon collection of Indian art—one of the most extensive in the West—is housed here. Most of the 800 pieces displayed are from Plains and Woodlands Indian tribes (Crow, Blackfoot, Dakota Sioux, Chippewa, Winnebago, Fox), but Southwest and West Coast tribes are also represented.

The museum is at the Park Service's Colter Bay Visitor Center, 5 miles north of Jackson Lake Lodge just off Rockefeller Parkway (U.S. 89). The center opened last month and operates daily through September 30. Museum hours are 8 to 5 daily (until 7 mid-June through Labor Day). Admission is free.

Says museum curator Tom Danton, "We're trying to demonstrate the accomplished artistry of Native Americans." One hundred twenty-five new interpretive labels have been installed, adding information about age and tribal affiliation of objects. If you want to learn more, you can ask the staff, which happens to be all Indian. This is one way the museum encourages contact between visitors and Indians; another is a series of lectures, tours, demonstrations, or open forums where Native Americans answer questions about their history and culture. One of the most popular is "Little Moccasins," a 2½-hour session in which children hear Indian stories, learn beadcraft, take nature walks, or set up a tepee.

Staff members will demonstrate their various talents, including bead working, sketching, and painting, and give dance and music performances.

A schedule of museum activities is printed in the *Teewinot*, Grand Teton Park's free newspaper, or you can call (307) 543-2467. □

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Lodging in private homes: *up the stairs leads to three-story San Francisco Victorian (left). In Los Angeles home, breakfast is on the patio*

Finding bed-and-breakfast places

The booming popularity of lodging in private houses has given rise to a new service business: bed-and-breakfast booking agencies. Throughout the West, these companies inform you of available rooms, match your needs with a suitable host, and complete accommodation arrangements. It's a young industry with a rapidly growing number of host homes.

Staying in a private home puts a personal touch into lodging. On the practical side, it can amount to savings: rates average about $35 to $45 per night for two. And prices include breakfast—anything from café au lait and croissants to blueberry pancakes.

Most of the agencies listed below book homes in a limited region, though some can arrange a stay in a house as far away as Vermont. The agencies require you to fill out an application and submit a room deposit. Some also ask for a small annual membership fee. Other incidental fees charged by agencies might include printed lists of homes and their cost for telephoning host homes. The further ahead you plan, the better your chances are of getting specific requests.

If you're traveling outside the West, you can consult *Bed & Breakfast North America*. This 60-page directory lists agencies in the U.S., Canada, and Mexico, including some mentioned here. For a copy, send $6.95 (postage paid) to Betsy Ross Publications, 3057 Betsy Ross Dr., Bloomfield Hills, Mich. 48013.

The bed-and-breakfast boom has also spawned the publication of listings of rooms in the West. These pamphlets are simply informative; if you find a room you like, you must book it yourself. You'll find a sampling of publications following our agency list.

ARIZONA

Bed and Breakfast in Arizona, 8433 N. Black Canyon Hwy., Suite 160, Phoenix 85021; (602) 995-2831. More than 150 rooms (some with access to tennis courts, swimming pools) throughout Arizona cost from $20 to $45 per night.

Mi Casa - Su Casa, Box 950, Tempe 85281; (602) 990-0682. Choices among 56 homes include a 5-acre ranch with horses, a National Register Victorian home, luxury townhouses with pools and spas, and mountain homes with nearby fishing. Rates range from $18 to $50; weekly and monthly rates available.

CALIFORNIA

American Family Inn, 2185-A Unión St., San Francisco 94123; (415) 931-3083. More than a hundred homes in northern California and Hawaii have rooms running from $35 to $60 per night.

The Bed and Breakfast Exchange, Box 88, St. Helena 94574; (707) 963-7756. This referral service has 200 rooms, most in the Napa Valley, for $25 to $165 per night.

Bed and Breakfast International, 151 Ardmore Rd., Kensington 94707; (415) 525-4569, 527-8836. In its fifth year, this is the oldest agency in California, with 300 homes throughout the state and in Hawaii, as well as in Las Vegas, Seattle, Boston, Chicago, and Washington, D.C. Rates range from $20 to $60, with a two-night minimum stay. No pets.

Bed and Breakfast of Los Angeles, 32127 Harborview Lane, Westlake Village 91361; (213) 889-7325. About 20 homes from Laguna Beach to Thousand Oaks rent from $24 to $70 per night.

Bed and Breakfast of San Diego, Box 1006, Coronado 92118; (602) 952-9383. Rates are from $30 to $60 per night at 12 homes in the San Diego area; minimum stay is two nights.

California Bed and Breakfast, Inc., Box 1551, Sacramento 95807; (916) 442-7298. Annual membership fee of $15 entitles you to unlimited booking from among 120 homes throughout California. Rates range from $15 to $65 a night.

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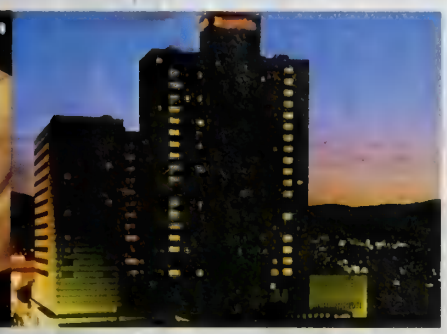

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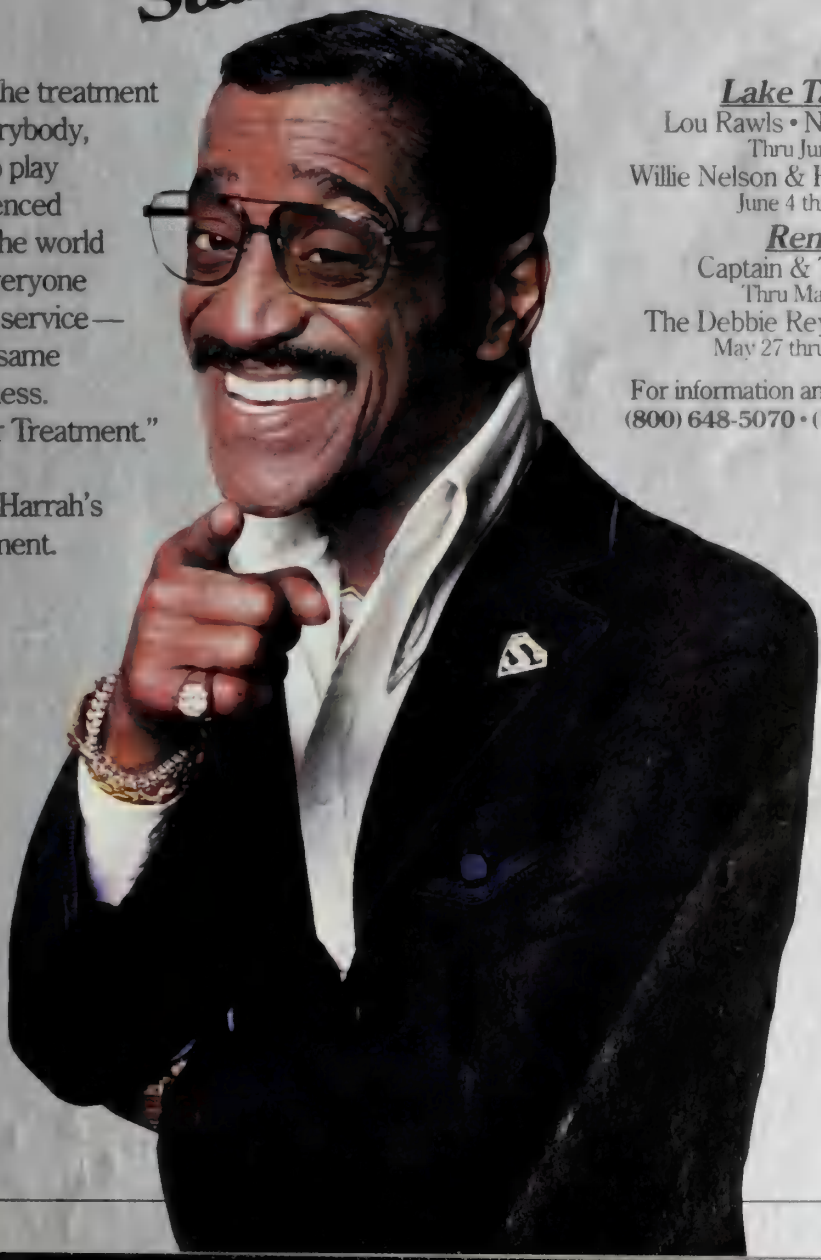

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Box 1256, Chico 95927; (916) 343-9733. Throughout California, rooms vary from a 130-year-old working cattle ranch to a stately manor house in a 2,400-acre park. Rates are from $20 to $45.

California Houseguests International, 6051 Lindley Ave., #6, Tarzana 91356; (213) 344-7878. Among 70 homes—mostly in the Los Angeles area—are an Italian Renaissance villa, a Balboa Island waterfront home, and a marina houseboat. Rates run from $35 to $65 per night (two-night minimum stay); a few of the accommodations are more expensive.

Digs West, 8191 Crowley Circle, Buena Park 90621; (714) 739-1669. Thirty homes, primarily in Orange County, rent from $25 to $45 per night.

Homestay, Box 326, Cambria 93428; (805) 927-4023. Twenty-five rooms in the area near Hearst Castle rent from $30 to $45 per night. Vacation homes in the same area are also available.

Home Suite Homes, 1470 Firebird Way, Sunnyvale 94087; (408) 733-7215. Most of the 100 homes available are in northern California, though a few are as far away as Spain and India. Rates run from $16 to $55 nightly.

Hospitality Plus, Christian Bed and Breakfast, Box 388, San Juan Capistrano 92693; (714) 496-7050. Among the 80 choices are a geodesic dome house in Washington, D.C., a historic federal-style house in Vermont, and a 42-foot schooner in Southern California. Rates are from $14 to $45; some higher priced estate houses are available.

The International Spareroom, Box 518, Solana Beach 92075; (714) 755-3194. This agency publishes two lists (one with 149 rooms in the U.S., Canada, Mexico, Bahamas, France, and Australia; the other with 108 rooms in England, Scotland, and Wales); cost is $2 each. Rates range from $13 to $78 per night (two-night minimum in North America, five nights in Great Britain).

Megan's Friends, 1230-A Fourth St., Los Osos 93402; (805) 528-6645. Among the amenities of 20 homes in California's central coast are private patios, ocean views, wildflower gardens. Rates range from $20 to $45; no smoking.

Napa Valley Bed and Breakfast Reservations, 1910 First St., Napa 94559; (707) 257-1051. A referral service with 10 homes in the Napa-Yountville area. Rates range from $50 to $95 per night double occupancy.

Rent A Room International, 1032 Sea Lane, Corona del Mar 92625; (714) 640-2330. Twenty homes in Los Angeles, Long Beach, Anaheim, Newport Beach, Laguna Beach, and San Diego rent for $25 to $30 per night (three-night minimum). No pets.

Wine Country Bed and Breakfast, Box 3211, Santa Rosa 95403; (707) 539-1183. Fifteen homes in Santa Rosa area rent from $30 to $65 per night.

COLORADO

Bed and Breakfast Colorado, Box 20596, Denver 80220; (303) 333-3340. More than 20 homes throughout Colorado range from $20 to $80 (three-night minimum in Denver, two nights elsewhere).

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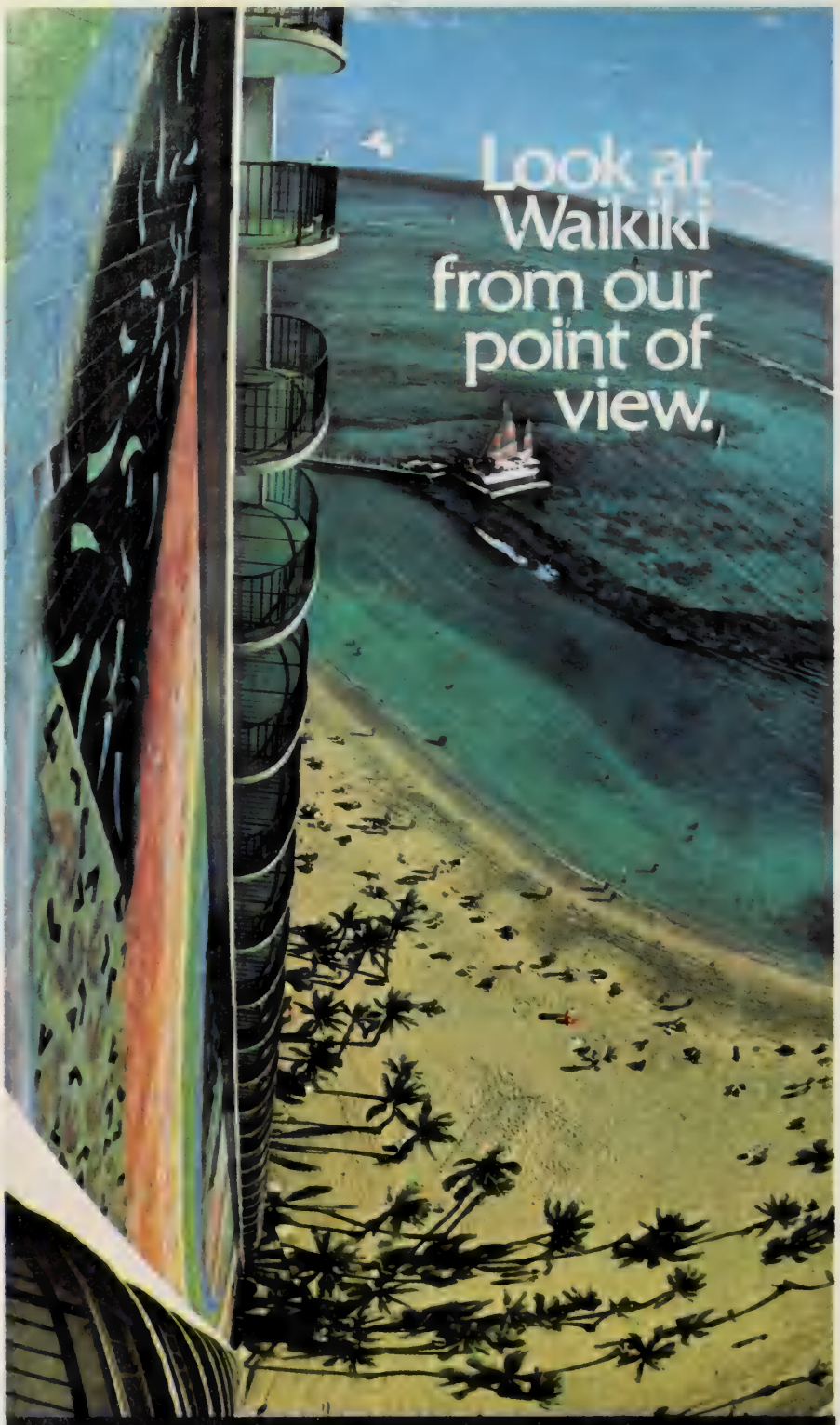

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a cliff-perched cottage overlooking Sunset Beach on Oahu, a condominium on Kauai, an old cane house remodeled in Japanese teahouse style. Rates run from $14 to $44 per night (two-night minimum).

Pacific Hawaii Bed and Breakfast, 19 Kai Nani Place, Kailua, Oahu 96734; (808) 262-6026. Twenty-five homes, many on the beach, range in price from $12.50 to $75 per night.

OREGON

Bend Bed and Breakfast, 19838 Ponderosa Dr., Bend 97702; (503) 388-3007. Twenty homes in central Oregon (most within 30 minutes of Mount Bachelor) have rates from $18 to $30 nightly; family rate adds $5 per child to double room rate. Some large ranch-style houses can accommodate 2 or 3 families at once.

Northwest Bed and Breakfast, 7707 S.W. Locust St., Portland 97723; (503) 246-8366. Its directory details more than 200 homes from Idaho to the Washington coast with rates ranging from $14 to $40 per night.

P.T. International, 1318 S.W. Troy St., Portland 97219; (503) 245-0440, (800) 547-1463. Homes in 22 states and 10 countries average $33 per night (double occupancy). Room bookings can be made through travel agents.

WASHINGTON

Pacific Bed and Breakfast, 701 N.W. 60th St., Seattle 98107; (206) 784-0539. Located in the Puget Sound area, Washington, Reno, and British Columbia, 42 rooms run from $16 to $40 per night; family rates are available.

Travellers' Bed and Breakfast, Box 492, Mercer Island 98040; (206) 232-2345. In the Seattle-Puget Sound area as far north as Vancouver, B.C., 40 homes rent rooms from $20 to $40 per night. Choices include a turn-of-the-century Victorian, an old stationmaster's house, and a re-created 14th-century English Inn.

West Coast Bed and Breakfast Club, 11304 20th Pl. S.W., Seattle 98146; (206) 246-2650. Several of 23 homes in Seattle area are 10 minutes or less from downtown. Rates range from $20 to $50 per night (two-night minimum).

PUBLICATIONS

Bed and Breakfast Homes Directory (Knighttime Publications, Box 591, Cupertino, Calif. 95014; $5.95, including postage) lists 68 homes, most in northern California, a few in Southern California and Oregon.

Bed and Breakfast West Coast, by Jim and Beckie Wheeler (4744 Third St., Carpinteria, Calif. 93013, 1981; $5.30, including postage) describes 40 private homes and small inns, most in Santa Barbara County, listing their addresses, telephone numbers, and nearby attractions.

Gallucci Hosts Hostels: Bed and Breakfast (Lake Grove Realty, Box 1303, 5211 S.W. Madrona St., Lake Oswego, Ore. 97034; monthly newsletter, $1) lists hostel rooms and bed-and-breakfast lodgings in Oregon and Vancouver, Washington. (Rates run as low as $5 per night for a dormitory room.) Include $1 and a stamped, self-addressed envelope.

The Wine Country Bed and Breakfast Almanac (B & B Productions, Box 295, St. Helena, Calif. 94574, 1981; $4.50, including postage) lists some 30 bed-and-breakfast locations in the Napa Valley. □

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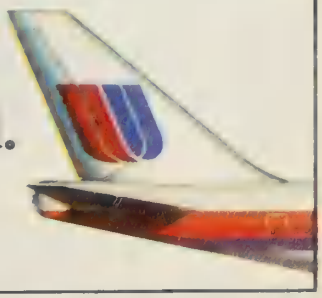

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POWER RAM 50

Dodge introduces the "Four Wheeler of the Year."

"...the Power Ram 50 is one of the all-around great mini 4x4 pickups to hit the market." *Four Wheeler, Jan. 1982*

"...any way you slice it, the Power Ram 50 is the best there is among small 4x4 pickups." *Pickup, Van & 4WD, Jan. 1982*

"This is not a mini pickup like all the others from Japan but rather a mini 4x4 that rivals the power and performance of any (small) pickup you choose to stick it against."
4 Wheel & Off-Road, Jan. 1982

That's a sampling of what the experts have to say about the new Dodge Power Ram 50. Here are some key facts behind the raves.

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Dodge Ram 50 4x2. Introducing a new, low-priced Dodge Ram 50 model, available in limited quantity. Order now while supplies last. **$6199***

	Dodge Power Ram 50 Sport	Datsun Sport 4x4	Toyota SR-5 4x4
Engine, liters, cyl.	2.6 Four	2.2 Four	2.4 Four
Horsepower @rpm	105 @5000	98 @5200	100 @4800
Torque @rpm, lbs.-ft.	139 @2500	127 @2800	129 @2800
Payload, lbs.	1510	1400	1400
Fuel tank capacity, U.S. gal.	18.0	15.9	13.5
Box length, in.	81.5	73.4	72.2
Steering type	Power	Manual	Manual

*Base sticker price excluding title, taxes and destination charges. Price as of 3-15-82.

Winners: In 1981 Dodge Ramcharger won *Four Wheeler* magazine's "Four Wheeler of the Year" award. Now Dodge Power Ram 50 is 1982's winner, and *Off Road* magazine's "4x4 of the Year."

Dodge Trucks
RAM TOUGH

JOHN BLAUSTEIN

Dory begins plunge *into boiling whitewater of Colorado River rapid*

Still time to join a Colorado run

In 1857, Lieutenant J.C. Ives wrote in his log that the "profitless locality" of America's grandest canyon was "intended by nature . . . to be forever unvisited and undisturbed." But nature's intention is not always man's predilection: the Grand Canyon of the Colorado is today the world's most celebrated whitewater river run. For the past decade, it has been so popular that getting space on a guided trip has often involved a long wait.

This year, the situation has changed. Even this far along, you can likely still sign up for a guided trip in July, August, or September, when the river will rise to its highest—and best—levels. One reason for increased availability is the higher number of user-days allowed by the National Park Service.

Some 22 outfitters guide river trips through the Grand Canyon aboard craft that include wooden dories and motor-powered rafts. In a motorized raft, prices run from $520 for 5 days to $750 for 6 days. In oar-powered rafts or dories, prices range from $560 for 6 days to $1,200 for 14 days; there are also 18- to 22-day trips ($1,620).

For a list of outfitters, write to the Superintendent, Grand Canyon National Park, Ariz. 86023, or call (602) 638-2411.

Under new regulations, the period from September 16 through December 15 will be restricted to oar-powered craft. □

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JERRY FREDRICK

Loftily perched *Sierra Buttes lookout (above) gives eagle's eye view of volcanic landscape*

On Sierra City's *sleepy main drag (below), soaking up the morning sun is one way to ease into the day in this unspoiled mountain town*

Jagged silhouette *of the Sierra Buttes dominates scene for miles around*

Located *87 miles from Auburn, 50 miles from Truckee, Sierra City is on State 49 in Tahoe National Forest*

Vacationers *row away a lazy afternoon on Packer Lake below Buttes' craggy face*

Majestic Sierra Buttes, poky Sierra City... time for a discovery trip

The Sierra Buttes tower nearly a mile above the ridges of the gentle northern Sierra. Their spires dominate and name a 15-mile region often overlooked by summer crowds heading for Lake Tahoe to the south and the Feather River to the north. On the slopes below the Buttes, Gold Rush-era towns drowse in summer warmth. Those who seek out this area come for camping, hiking, fishing, and family reunions at early-to-bed resorts.

Removed from the frantic vacation pace, this is a place to spend a week fishing, raising dust on the trail, or simply watching the brilliant green of a willow unfold in the June mountain spring.

Sierra City: early miners, a museum

When gold was discovered in the Buttes in 1850, a town called Sierra City sprouted between the jagged volcanic peaks and the tortuous North Fork of the Yuba River. Some of its present 300 residents are descendants of miners who tunneled the Buttes and panned the rivers. This area seemed rich enough to justify risking perpendicular mountains, raging rivers, and a history of avalanches; to date, it has yielded $30 million in gold.

Sierra City, at an altitude of 4,187 feet, is an unspoiled, picturesque town with four restaurants, a grocery store, and several inns and motels. A new historical exhibit—Sierra County Historical Park and Museum—has opened ¼ mile east of town on U.S. Highway 49.

The small museum contains traces and trappings from Indian and mining days. You can also take a guided tour through the newly reconstructed Kentucky Mine and Stamp Mill; here you follow the route of rock as it goes through various stages of pulverization to the amalgamation table, where gold is extracted with mercury. From Memorial Day to the end of September, the museum is open 10 to 5 Wednesday through Sunday. Cost is 50 cents for the museum and $1 for the stamp mill tour, free to those 12 and under. Museum grounds are also a good spot for a picnic.

Guide *in reconstrueted Kentucky Mine and stamp mill explains how quartz is crushed and gold extracted*

The Buttes lakes: swimming, fishing, views

On the north side of the Buttes, at about 6,000 feet, a dozen or so small lakes hold eastern brook and rainbow trout. Drive northeast on State 49 from Sierra City for 5 miles, turn left at Bassetts onto Gold Lake Road, and turn left again on Packer Lake Road over the Salmon Creek Bridge.

If you continue straight ahead, you'll wind up at Sand Pond and Upper and Lower Sardine lakes. Swimming and picnicking are good at Sand Pond, and you can fish at Sardine Lakes. And the Buttes

Gold Lake Road *brings travelers to lakes, rivers, hiking, and camping. U.S. Highway 49 sweeps along the North Fork of the Yuba River through Sierra City*

rise so dramatically out of the deep blue lakes that a visit is worthwhile for the view alone.

If you turn right after crossing the Salmon Creek Bridge and follow Packer Lake Road for about 3½ miles, you'll reach Packer Lake. This small, willow-lined lake is a quiet spot for swimming, fishing, picnicking, and boating (no motors). Obtain a fishing license and supplies in Bassetts or Sierra City.

To get to Salmon Lakes, drive 3 miles on Gold Lake Road past the Packer Lake Road junction and look for a signed road to the lakes on your left. These are lovely, island-studded lakes set in reddish rock. Lower Salmon Lake is accessible only by jeep (you can walk the mile, but don't attempt to drive unless you have four-wheel drive). You can drive to Upper Salmon Lake, where the crags of the Buttes peer over the rise.

Some lakes accessible by foot include Volcano, Deer, Saxonia, and Tamarack. Check a trail map for routes.

Hitting the trail

All the trails networking the Buttes (including part of the Pacific Crest Trail) are within Tahoe National Forest, and all are signed and maintained. You have many choices, from an undemanding 1-mile stroll to a secluded pond to the arduous scaling of the Buttes to its lookout at 8,587 feet. Almost anywhere you go, you'll experience gentle forests and meadows, as well as the raw beauty of exposed volcanic rock meeting the sky.

You can begin several day hikes from Packer Lake. It's 2 miles up to Deer Lake, 1 mile to Saxonia Lake, 4 miles to Sardine Lakes, and 1½ miles to Tamarack Lakes.

A longer but very spectacular hike is to the Sierra Buttes lookout from Packer Lake. You can park ¼ mile up Pack Saddle Road (the continuation of Packer Lake Road). A parking area is on your right, the trailhead on your left. It's 4 miles one way, with an elevation gain of 2,000 feet. At the 1½-mile mark, you'll pass the small, jewel-like Tamarack Lakes, then switchback up to a ridge. At the base of a 500-foot drop, you'll see Young America Lake, an intriguing cloudy aquamarine color.

On the last stretch, a fire road switchbacks to the perilously perched lookout station. The final ascent is made on three flights of very sturdy aluminum staircase, but the view is worth any pangs of acrophobia. Deep forests stretch out into the horizon, and you feel as though you're looking at Sardine Lakes from a satellite. Great rock slabs fall away under you, with permanent patches of snow trapped in their crevices.

For more trails, consult a USGS topo map (Sierra City quadrangle). You can also obtain hiking and camping information at the North Yuba Ranger Station in Camptonville, 35 miles west of Sierra City (address is Star Route 1, Camptonville 95922; 916/288-3231).

Accommodations

Depending on how much you want to rough it, you can choose to stay at one of three nearby lakeside resorts, six hostelries (motels and inns) around Sierra City, or seven campgrounds. There is additional lodging in Downieville, 13 miles west of Sierra City on State 49, and more camping and resorts in the Gold Lake Basin 3 miles north of the Salmon Lakes turnoff on Gold Lake Road.

Lake resorts. These resorts are low-key, rustic places where week-long reservations are preferred and the emphasis is on friendliness. They enjoy a loyal clientele, so reserve well in advance. Housekeeping cabins sleeping up to four persons cost $225 to $350 per week.

Lower Sardine Lake, Box 216, Sierra City 96125; (916) 862-1196. Housekeeping cabins and small dining room are located at the north end of the lake. Three meals are served each day and some grocery and fishing supplies and rowboat rentals are also available.

Packer Lake Lodge, Sierra City 96125; (916) 862-1221. Housekeeping and sleeping cabins are all on Packer Lake; each includes a rowboat. The lodge has a cozy dining room with a fireplace and serves three meals a day. Fishing and grocery supplies and rowboat rentals are also available.

Salmon Lake Lodge, Sierra City 96125; (415) 771-0150. Informal housekeeping cabins look onto Upper Salmon Lake. There's no dining service in the old wooden lodge built in 1929 for vacationers and miners, but guests may use boats (rowboats, sailboats, canoes, and a kayak) and attend barbecues twice a week. Guests are ferried to the lodge on rafts.

Campgrounds. Closest to Sierra City are the Wild Plum campground on the shores of Haypress Creek and Loganville campground, 1 mile west of Sierra City on State 49. At Sand Pond is the Lower Sardine Lake campground. Along Packer Lake Road are three undeveloped (no running water) campgrounds: Packsaddle, Diablo, and Berger Creek. On Gold Lake Road, just beyond Salmon Creek Bridge, is Salmon Creek campground. All fees are $4 except for the three undeveloped campgrounds on Packer Lake Road, which are free. All campground spaces are available on a first-come, first-served basis.

How to get there, and when to go

From the Tahoe area, take Interstate 80 to Truckee, then follow State Highway 89 30 miles to Sattley, just beyond Sierraville; from here, proceed west on State 49. From Auburn, drive 87 miles northeast through Nevada City on State 49.

Back roads and trails in the Sierra Buttes region are closed by snow from about the end of October to the end of May. Summers tend to be warm and dry. If you're a solitude seeker, try early June or September or October. The weather can be good, and you'll have the area pretty much to yourself. □

JERRY FREDRICK

Dinner *in historic Sierra Buttes Inn (built in 1873) offers home cooking and friendly service in a period setting*

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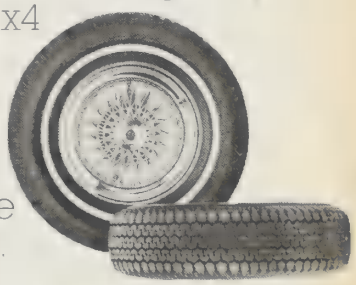

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By the way, here's what Sears Limited Warranty on Highway Tire Wearout covers: For the number of miles specified in the tread wearout warranty, Sears will, upon return, replace the tire or give a refund, charging a pro-rata charge for the miles received if wearout occurs and is not caused by failure to properly maintain the tire.

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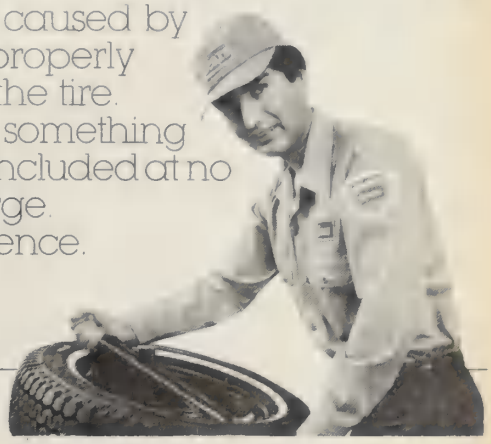

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SCOTTY MORRIS

Tightly packed runners and riders *pick their way through shrubs and pines at the start of last year's Levi's Ride and Tie in the Sierra*

And they're off! Running and riding, then riding and running

Eight-legged teams made up of two people and one horse will compete this summer in a series of rugged races. They're called Ride and Ties, and the idea is to have the humans alternately running on foot and riding their equine teammates over rugged terrain for distances up to 40 miles. The sport combines marathon running and endurance horsemanship.

Runners and riders start together, but those on horseback soon outdistance the competitors on foot. At predetermined spots, the riders dismount and start running ahead while the horses rest. The first runner arrives where the horse is tethered, mounts, and starts off, passing his or her teammate somewhere down the trail. This alternating pattern continues until all three teammates cross the finish line several hours later.

The granddaddy of these races, the 12th annual Levi's Ride and Tie, will be held south of San Jose near the historic community of New Almaden on Sunday, June 20. About 150 teams are expected —in two-man, two-woman, and man-woman categories. The 40-mile race should start about 8 A.M. and finish about 3½ hours later.

To get to the site, take the Almaden Avenue-Vine Street exit from Interstate 280 in San Jose. Follow Vine south to the Almaden Expressway and drive 9 miles south to McKean Road; turn left and travel 1 mile to the Santa Clara Horsemen's Association grounds. Be sure to get there in time for the start. A map of the loop will show you places where you can hike into the foothills for additional views of the course.

Two other races are scheduled in June and early July. First is the 30-mile Hundred Valley Ride and Tie to be held near Myrtle Creek, Oregon, on June 27. For details, write to Darrel Green, SM Route, Box 214, Myrtle Creek, Ore. 97457. In Utah, the fifth annual Park City Ride and Tie will be held July 10; call Bonnie Bedford at (801) 649-6100.

For information on other races, write to Bud Johns, Levi Strauss & Co., 1155 Battery St., San Francisco 94106. □

Tethered horse *waits in the shade for a two-legged teammate to reach him*

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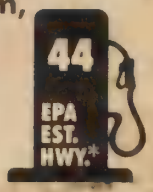

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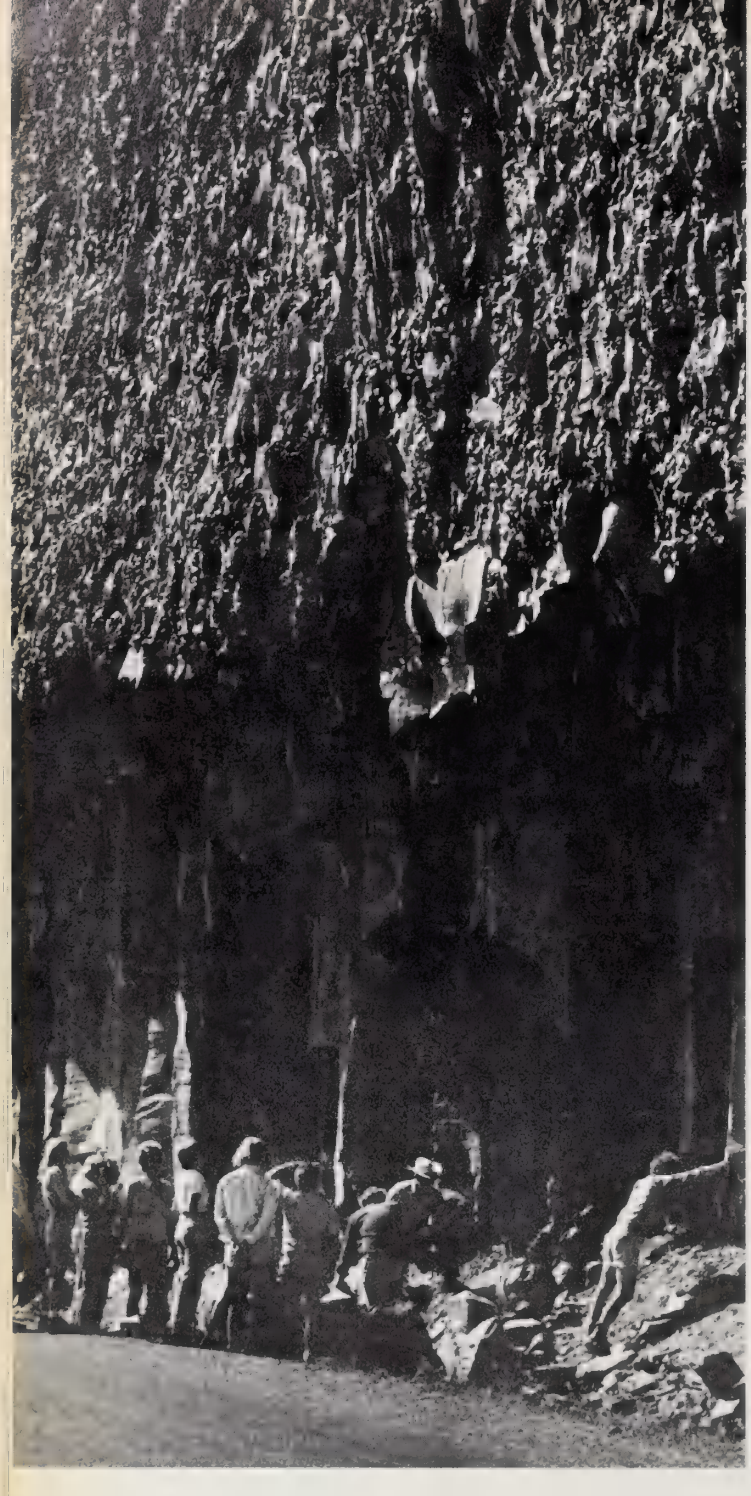
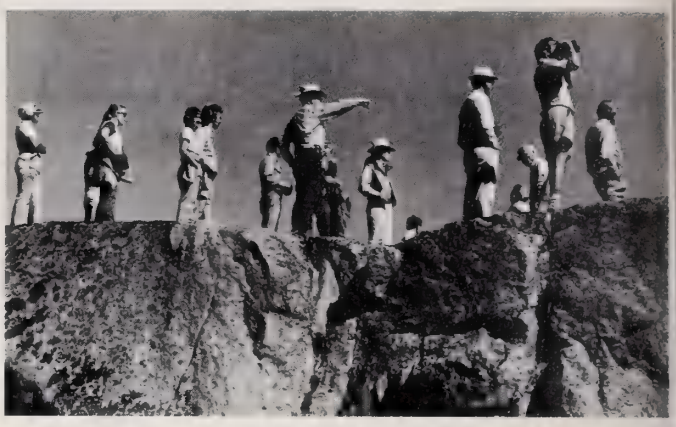


Geology buffs *in five-day seminar examine crystalline structure along the west rim of Yellowstone Canyon*



Pointing out *a feature, geology professor explains volcanic outcroppings observed on Yellowstone hike*

Yellowstone geology, Grand Teton birds, Yosemite or redwood lore ... among your choices in national park seminars

Four national parks in the West—Yellowstone, Grand Teton, Yosemite, and Redwood—offer in-depth field seminars from mid-June to mid-August. Seminar instructors are experts in their fields, and many of the courses may be taken for college credit. Some fill up faster than others (backpacking courses in Yosemite are very popular), but many are available as late as the first day of the course.

Offerings are too numerous to all be included here—Yellowstone has 30 seminars, Grand Teton 16, Yosemite 27, and Redwood 12—but this sampling may suggest the variety:

Yellowstone. Wildflowers, Calderas and Hydrothermal Systems, Flight of Chief Joseph, Horsepacking.

Grand Teton. The River Resource, Birds, Alpine Flora, Field Identification of Mushrooms.

Yosemite. Wilderness Photography Backpack, Stars, People and Park Animals (park ecology and management), Forests.

Redwood. Native American Cultures, Human and Natural History within Redwood National Park.

Most seminars last three to five days. Applicants should be in good physical condition, since some hiking is required.

Seminar fees, facilities at each park

At Yellowstone, fees vary, but most of the four-day courses cost $175. Maximum course size is 15, and participants stay at the Lamar Ranger Station, which has two-person cabins and central kitchen facilities where visitors do their own cooking. There are modern bathrooms with showers. For a complete course list, write to the Yellowstone Institute, Box 515, Yellowstone National Park, Wyo. 82190, or call (307) 344-7381.

At Grand Teton, the usual fee is $100 per seminar. Maximum course size is 16. Participants stay at a campground away from the heavily trafficked areas of the park. For details, write to Grand Teton Environmental Education Center, Teton Science School, Box 68, Kelly, Wyo. 83011, or call (307) 733-4765.

At Yosemite, the customary fee is about $70 (not including college credit). Maximum course size is 15 for backpack trips, 20 for other seminars. Free campsites are reserved for seminar participants. Write to Seminar Coordinator, Yosemite Natural History Association, Box 545, Yosemite National Park, Calif. 95389, or call (209) 372-4532.

At Redwood, all courses but one are free. Stay at state, commercial, or Forest Service campgrounds, or motels. Write to College of the Redwoods, Del Norte Educational Center, 401 Highway 101 N., Crescent City, Calif. 95531, or call (707) 464-6101. □

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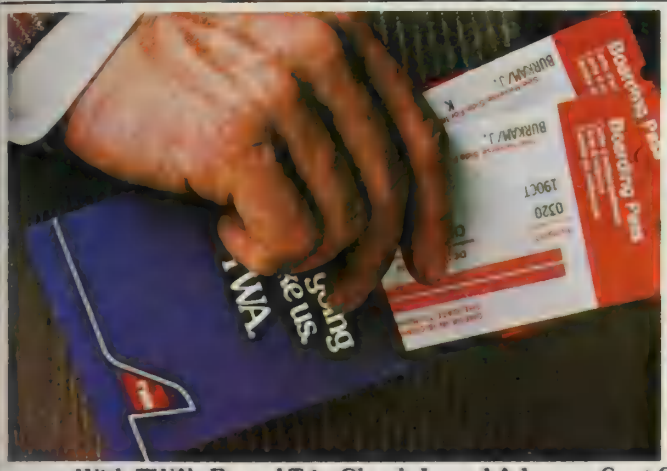

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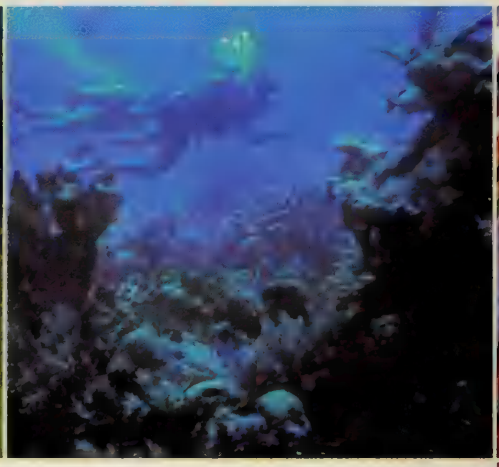

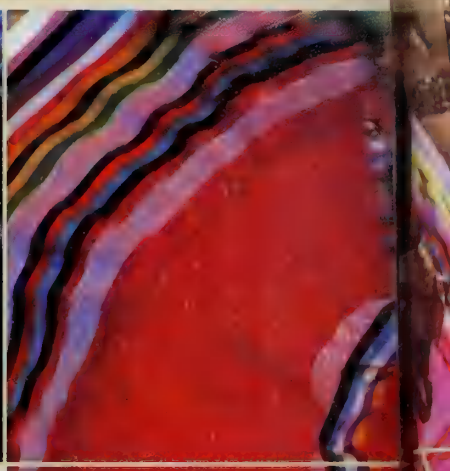

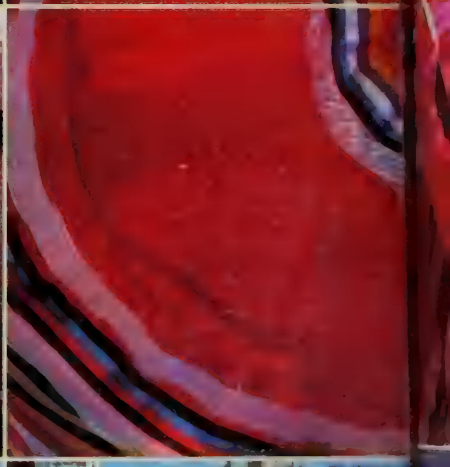

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Every room in this splendid resort enjoys a private lanai and a view of the Caribbean. The freshwater pool has a swim-up bar. Private saltwater lagoon. Two beaches. Four lighted tennis courts. And five bars and restaurants, including Azulejos and La Brisa.

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***Prices and extras:** Rates quoted are per person, double occupancy, for three days, two nights. Effective 4/18/82 to 12/18/82. All include special extras like welcoming cocktails and others exclusive to each locale. Naturally, there are more expensive accommodations and different rates for different lengths of stay.

Air fare is not included. 10% added value tax not included. Children 18 or under are free when sharing parents' room (room only).

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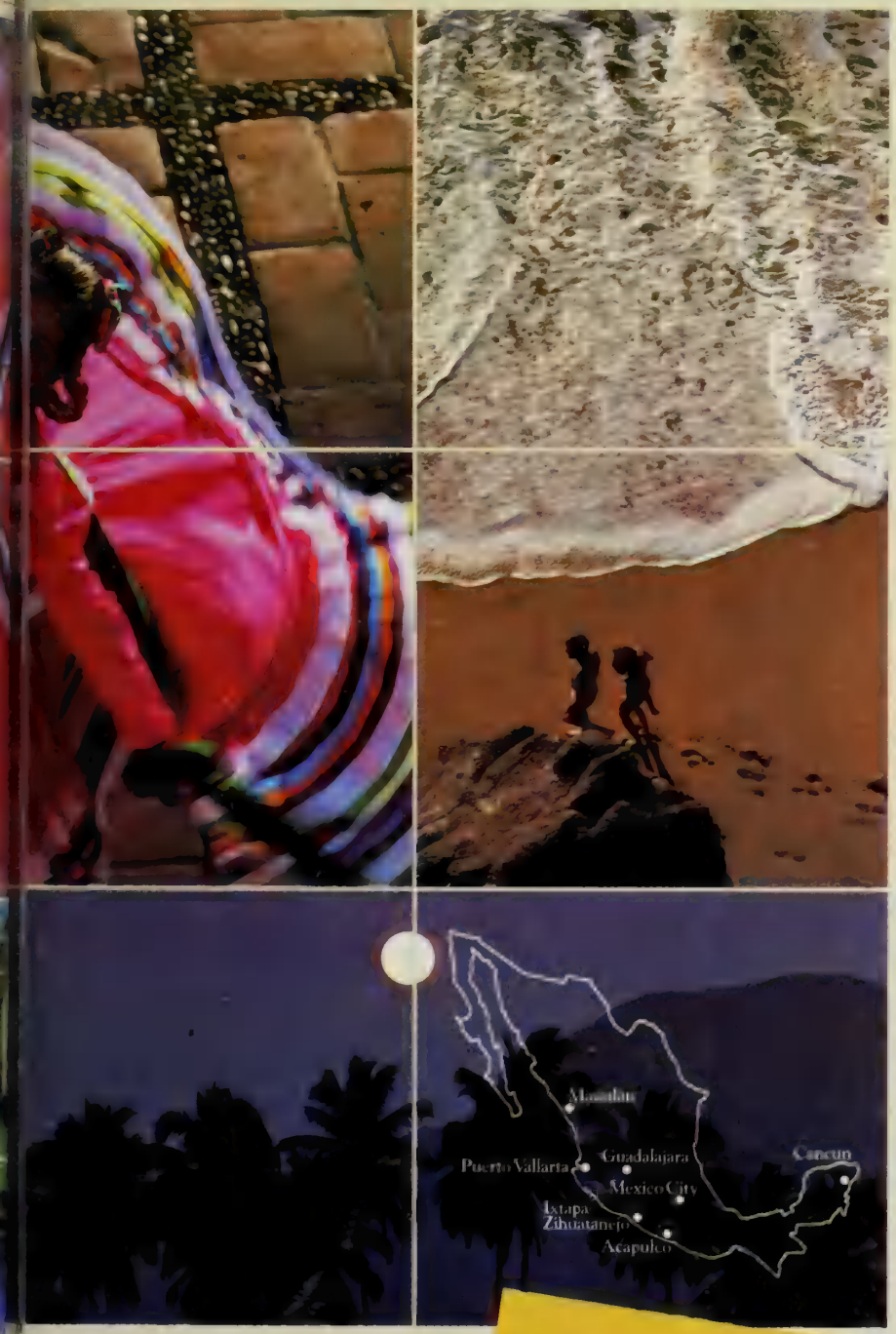

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MICHAEL THOMPSON

Rugged coast *of Kodiak Island includes Monashka Bay, where hikers skirt beach bluff*

Boat-packed harbor *of Kodiak City stretches below steep flank of Pillar Mountain*

Onion dome tops *steeple of Russian Orthodox church*

Kodiak Island . . . a little bit Russian, very wild

Stocking-capped *fisherman hoists king crab and red salmon—part of haul processed by the Shelikof Street canneries*

Anchored in the Gulf of Alaska off the tip of the Kenai Peninsula, Kodiak Island is a wild parcel of the state that many travelers hear about but seldom visit. Known for its fresh- and salt-water fishing, its Russian heritage, and its bears—the largest species in the world—Kodiak has until recently seemed just a little too far out of the way for most visitors. Yet the island and the town that shares its name can be worth the extra effort.

Resident fleets of fishing boats that crowd the small harbor year-round cruise out into the Gulf, returning in a daily, summer-long parade to unload catches of salmon and other fish at local canneries. The Baranof Museum and Russian Orthodox church are reminders of the Community's Czarist origins. In town, hermit thrushes sing nearly to midnight in the lingering northern summer twilight. Away from town, limited hiking trails and float planes provide access to fishing, wildlife, and wilderness camping.

This summer, Wien Air Alaska offers daily Seattle-to-Kodiak flights ($277 one-way, $415 round-trip super-saver fare). Wien and Alaska Aeronautical Industries both offer daily hops from Anchorage to Kodiak. You can also take the state ferry *Tustumena* from Homer or Seward. The ferry makes three weekly

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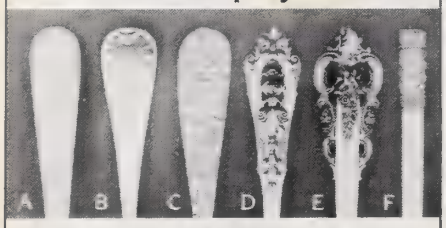

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MICHAEL THOMPSON

Once a warehouse for furs *of Czarist traders, Baranof House (built in the 1790s) is now a museum—a good first stop on Kodiak City walking tour*

trips; one-way fares start at $27 for the 13-hour cruise.

Mid-May through late September is the time to visit. July and August are the warmest months. But even sunny days in the 70s can turn rainy and chilly by evening. Pack warm clothing and raingear along with mild-weather hiking garb.

Kodiak's Russian heritage: special events, walking tour

From May 26 to 31, the annual Crab Festival will feature seafood tasting, Russian dancing, art and ethnic crafts, and boat parades.

From July 30 to August 14, eight performances of the history pageant play *Cry of the Wild Ram* will reenact Kodiak's conquest by Czarist fur traders in the late 18th century. Theatergoers can sample salmonberry tarts while watching ferocious battles played out under the setting sun in Alaska's only outdoor theater. Seating is plentiful; admission is $6; a heavy jacket and umbrella are essential.

First stop on an easy walking tour of downtown Kodiak is the Baranof Museum, on Center Street just above the ferry terminal. Built in the 1790s as a fur warehouse, the museum is a national historic landmark which displays Kodiak's rich Aleut and Russian past. Its gift shop sells Russian crafts, plus maps, brochures, and books on Kodiak. Summer hours are 10 to 3 weekdays, noon to 4 weekends. Admission is $1 for adults, 50 cents for students, free for children.

Across the street are the beautiful bulb-shaped cupolas of the Russian Orthodox church, which continues to serve Alaska's oldest parish. Visitors are invited to attend a service (Saturdays at 6:30 P.M., Sundays at 9 A.M.) followed by a tour of the church's ornate interior. Call (907) 486-3854 to arrange a tour.

Fishing for business, for fun

A short walk downhill from the church brings you to the waterfront; turn right on Marine Way to the small harbor, where Alaska's largest fishing fleet is sometimes moored three-boats-deep at the docks. Boats supply the canneries on Marine Way and Shelikof Street with crab (Dungeness, king, and tanner), salmon, shrimp, halibut, bottomfish, and herring. Call ahead for an informal cannery tour and to see when fresh catches will be coming in.

For sport anglers, docks near canneries are often productive spots for flounder, rockcod, and greenling; most are open to the public. But the real angling action begins with Dolly Varden trout in the Buskin River and other nearby streams in May and June. Lake fishing for grayling picks up in June. Red salmon (sockeye) move into the rivers in early June, pink salmon in mid-July; salmon fishing peaks with the silver (coho) runs in September. Nonresident fishing permits ($5 a day, $15 for 10 days) are sold in local sports shops, where you can also pick up a free copy of the *Kodiak Area Sport Fishing Guide*. Charter boats ($50 to $125 a person) listed in the yellow pages take fishermen offshore for salmon or giant halibut that can top 100 pounds.

Exploring the island . . . by car or on foot

To explore Kodiak Island's 83 miles of paved and graveled roads, five rental agencies at the airport and in town can rent you a car.

Drive to the top of nearby Pillar Mountain for best views of the city and offshore islands. Fort Abercrombie State Historical Park, a 4½-mile drive to the northeast, has World War II fortifications and 14 campsites set in a spruce forest. Cape Chiniak Road crosses the Buskin River 5 miles south of town, then follows almost 50 miles of wild coastline, with many beach campsites and excellent clam digging (at low tide) wherever the road crosses a river mouth. Anton Larsen Bay Road leads north to wilderness

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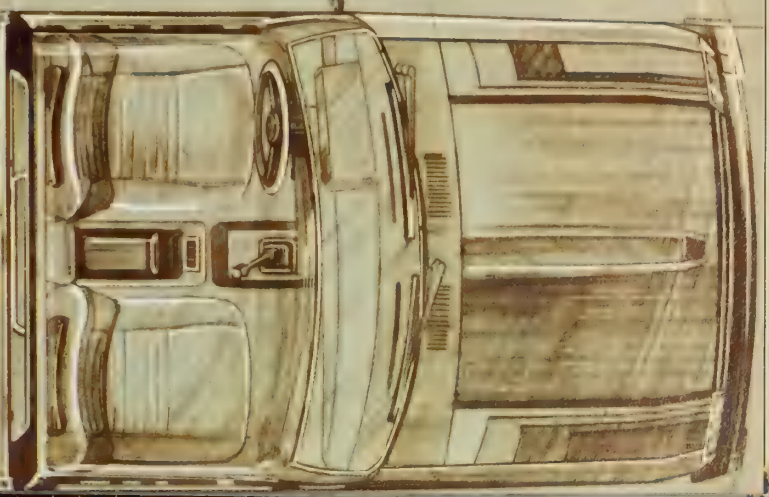

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hiking and high-lakes angling.

Hiking is the best way to see some of the island's more than 100 bird species, including nesting bald eagles (near rivers) and sea bird rookeries along the rugged coast. Here are two hikes that will introduce you to Kodiak's varied terrain.

For the first, drive west of town on Rezanof Drive; take the second right after the airport; then the first left; at road's end, park by the concrete building. Hike about a mile up the abandoned road (800-foot elevation gain) to the top of Old Womens Mountain for views of Womens Bay and Kodiak City.

For a longer but more level hike through spruce forest and past beaver dams to Monashka Bay, drive past Fort Abercrombie to the end of Monashka Bay Road (11½ miles from town), then walk the unsigned main trail about 4 miles to Otmeloi Point on the coast.

Kodiak's giant bears in a giant national wildlife refuge

To see more of Kodiak Island's 3,670 square miles, you must leave the roads behind. One bargain is the mail plane to six outlying villages. Kodiak Western Alaska Airlines' (486-3271) daily mail flights take passengers as space permits ($30 to $130 round-trip).

Some villages are served by two daily flights; you could fly to Old Harbor on Kodiak's south coast or Ouzinkie on Spruce Island, explore, then fly back.

For a true wilderness experience and a glimpse of the famed half-ton Kodiak brown bears, explore the 2,780-square-mile Kodiak National Wildlife Refuge, which occupies almost 80 percent of the island. Twelve back-country cabins open up fishing, hunting, and wildlife-viewing opportunities. The cabins are free, but access to them is mostly by charter plane ($250 to $500 round-trip for a party of three or four). Advance reservations are required; write to the refuge at Box 825, Kodiak, Alaska 99615.

Accommodations, restaurants

Lodging is limited in Kodiak City, so reservations are a must unless you plan to camp. The modern Sheffield House (about $80 a night for a double) is often booked through summer by early June. Other options are the Shelikof Lodge ($55) and the Kodiak Star ($64); which has six rooms with kitchenettes.

Restaurants are plentiful, but fresh seafood dinners are scarce since islanders customarily catch their own and cook it at home. Two good bets should be Spanky's and Sheffield House Restaurant.

The Kodiak Chamber of Commerce (Box 1485, Kodiak 99615; 907/486-5557) can help line up fishing boat or floatplane charters, arrange cannery tours, and provide details on transportation, accommodations, and events. □

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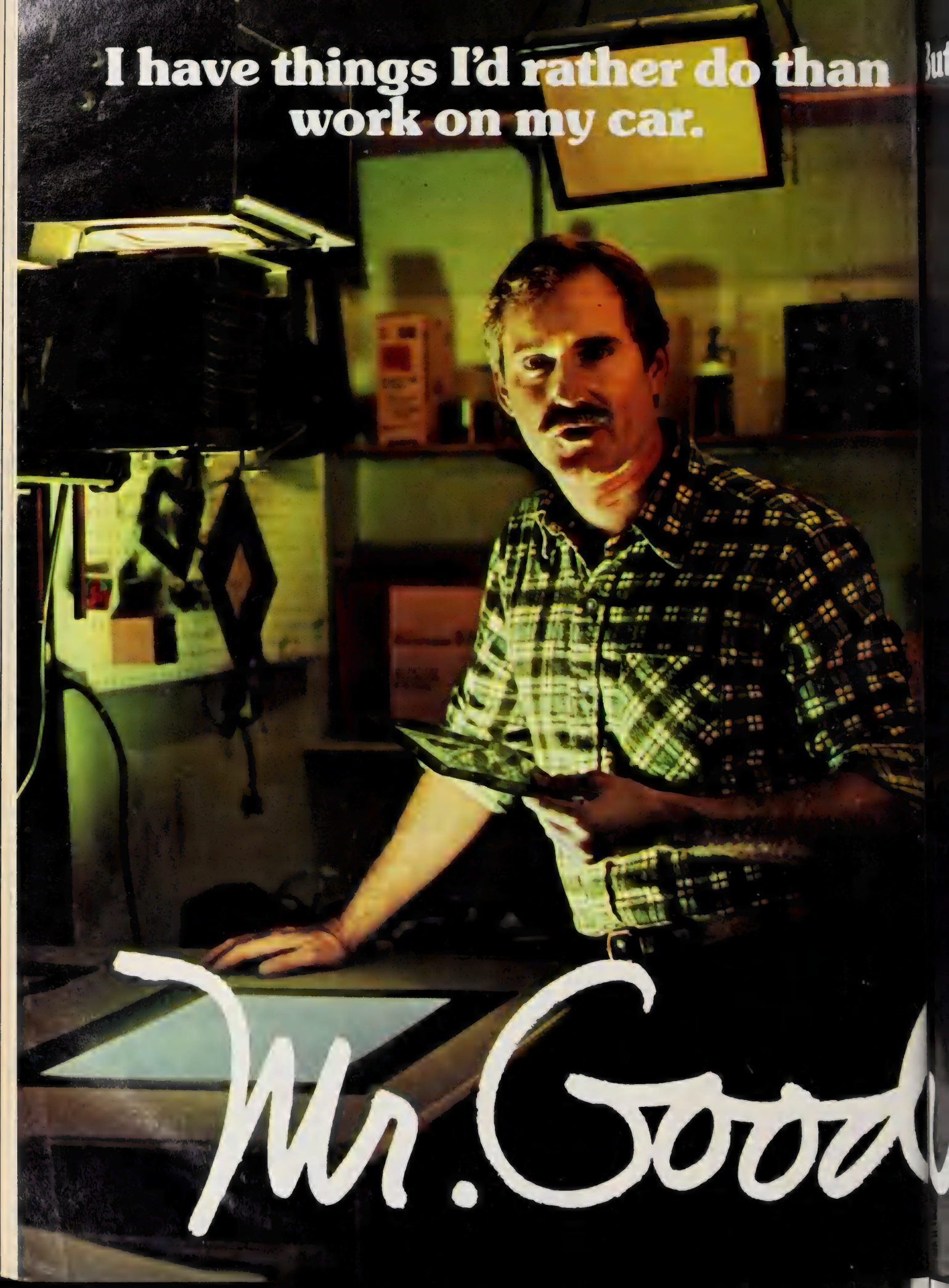
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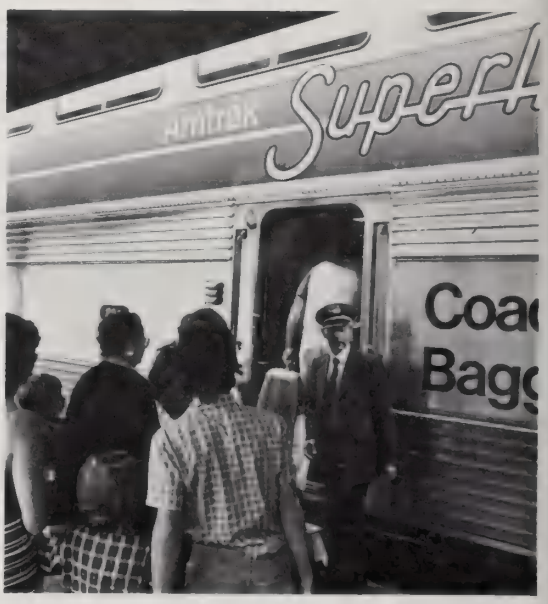
River-and-rail excursion *begins at Amtrak station in Portland (right) as passengers board first level of double-decker car on Pioneer train for hour-long ride through Columbia Gorge to Cascade Locks. There, they switch to tour boat (above) for 20-mile loop cruise on the broad Columbia River*



Rail-cruise touring returns to the Columbia Gorge . . . May 24 through summer

In the age of steam, a family excursion from Portland to the Columbia River Gorge was an all-day affair. Picnic hampers were loaded on the Union Pacific steam train for the ride to Cascade Locks. There, travelers boarded steamboats for excursions along the river to see the then-new navigation locks (built 1896), which made river traffic safer and easier.

Eventually, however, the family automobile spelled the end of these excursions. But early last summer, a series of 11th-hour negotiations between Amtrak and a river tour boat operator resulted in the reestablishment of rail-boat excursions similar to those early outings.

From May 24 through September 30, you can board Amtrak's *Pioneer* to Cascade Locks, then take a 2-hour narrated cruise aboard the *Columbia Sightseer*, and still have time for a museum tour before boarding the 4:10 P.M. return train. From Portland, it's a half-day tour departing at noon and returning by 5. From Seattle, it's a 13-hour day, departing at 8 A.M. and returning by 9 that evening. (You can also leave from Tacoma, Olympia, Centralia, Kelso-Longview, and Vancouver, Washington.)

Round-trip train fares at our press time ranged from $16 from Portland to $40 from Seattle; children under age 12 ride for half price.

It's a short walk from the train to the boat, which will wait for tardy trains. The 65-foot-long excursion boat holds 100 passengers and makes a total 20-mile cruise loop: upstream to the base of Wind Mountain, then back down to Bonneville Dam and its hardworking locks, before returning to the station dock. Seats in the boat's enclosed cabin are comfortable on rainy or blustery days, but on sunny days, grab a deck seat in the stern. Boat fares are $7.50 for adults, $5 for children under 13.

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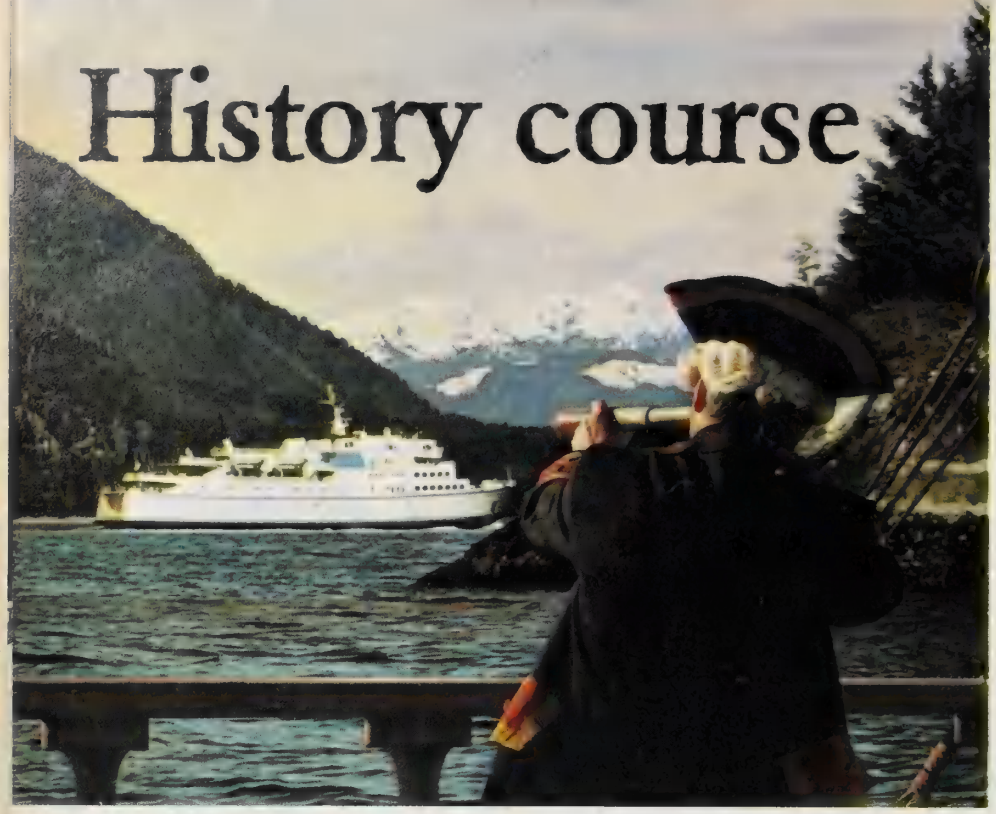

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October to March, vessel sails from Vancouver (Tsawwassen).

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Wood-handled water pump *once served aboard a steam riverboat; today it's on view in free Sternwheeler Museum*

just long enough for a look into the Sternwheeler Museum near the dock; (pictures, models, displays); it's open 8 to 5 during the summer season.

If you're quick, you can also peek in the Cascade Locks Historical Museum, a block downriver in an old lock tender house across the park. It's open noon to 5, Memorial Day to late September.

If you'll be riding the *Pioneer* west from Boise, Salt Lake City, or Denver, plan an overnight stop at Cascade Locks (there are several motels) for a more leisurely look at the gorge. (See page 94 of the April 1981 *Sunset*.)

You can also use the *Columbia Sightseer* for more extended touring: take the 9 or 11 A.M. cruise and disembark at Bonneville Dam. Built in 1937, Bonneville is the first of the Columbia's great hydroelectric dams. You'll have 2 hours to visit a small museum, peer through underwater windows to watch salmon climbing the fish ladder, and take one of the guided tours leaving every half hour to view the dam's 10 generators.

Reservations for the train and boat are a must. See your Amtrak-approved travel agent or write to Columbia Sightseer Tour Boat, Box 307, Cascade Locks, Ore. 97014; (503) 374-8474. (Longer train-boat excursions are offered some winter months; write for details.)

The old-fashioned tradition of the train-board picnic is a good one to continue today. (Amtrak's railcars are modern and we found them comfortable, but the fare served in the snack car achieves little distinction even as fast food.) Pack a simple picnic lunch to munch in your seat while you enjoy the view. □

WOOD SHOULD PLAY MORE THAN A SUPPORTING ROLE IN A HOME.

There's a sweetness to fresh-sawn lumber. You can smell it in the air as you walk through a newly-framed home. Almost sugar.

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Pondersosa believes that feeling is too good to hide behind a sheet of drywall.

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Some of our homes make use of cedar shake roofs and rough fir siding.

Some come with solid oak entry doors complete with hand-crafted embellishments.

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And solid oak stair railings. And wood-trimmed luminous ceilings.

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A craftsman's philosophy. It's all part of a craftsman's philosophy that says even the smallest of details is as important as the roof it's under.

Now that may be a difficult philosophy to hold to in times like these. But it's well worth the effort.

It's because of our unswerving attention to detail, in fact, that we've won award after award, including the National Association of Home Builders' Best Large Volume Builder in the country for 1981.

Apparently they believe as we do. Great homes are born of small touches.

And that if we spend hour upon hour detailing a solid oak entry door, just imagine the craftsmanship you'll find behind it.

For your nearest Ponderosa Development, call: Northern California— San Ramon Division (415) 838-0901 or Santa Clara Division (408) 727-4500; Southern California— Irvine Division (714) 975-1669 or San Diego Division (714) 569-2218.

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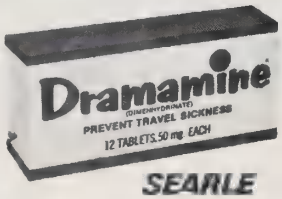

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DAVID STUBE

A steel-plated whale, *a crowd of Jonahs: C-5A transport was Lemoore star last year*

Naval air show at Lemoore

Parked on the runway are a needle-nosed F-111 and a C-5A so behemoth that dozens of families could cool themselves in the shade of its wings. Lift your eyes upward and there are four A4F Skyhawks stringing an aerial cat's cradle at 400 mph and parachutists dropping a thousand feet with more assurance than some of us feel walking down stairs. Planes—big planes, fast planes, oddball planes—are what the June 19 and 20 air show at Lemoore Naval Air Station is all about.

Lemoore lies in the San Joaquin Valley 30 miles south of Fresno and about the same distance from either Interstate 5 or State 99. Events run Saturday and Sunday from 9 to 5, with the actual air show (featuring the Navy's Blue Angels) scheduled from 1 to 3 P.M. both days. In addition to shows and ground displays, there will be a chili cook-off and (if last year is any guide) children wearing sandwich boards that proclaim, "Come to the A-4 for a picture in flight gear."

The base is just west of town center on State 198; follow the signs. Admission is free. For more information, telephone the base public affairs office at (209) 998-3140.

One final bit of advice: it can be hot out on those runways, and shady spaces are limited: wear cool clothes. □

For Mexico it was a period of incredible wealth. Even the mortar of the church was mixed with silver dust and red wine.

Like so many great works of art, La Valenciana Church is a reflection of the times. Very prosperous times for 18th-century Guanajuato, when the hills above this mellow Mexican town yielded a fortune in silver and gold. A church was built, as opulent a adventure as money could buy. Filled with treasures. Built with treasures. For the legend persists to this day that the mortar of La Valenciana was mixed with silver dust and Malaga wine.

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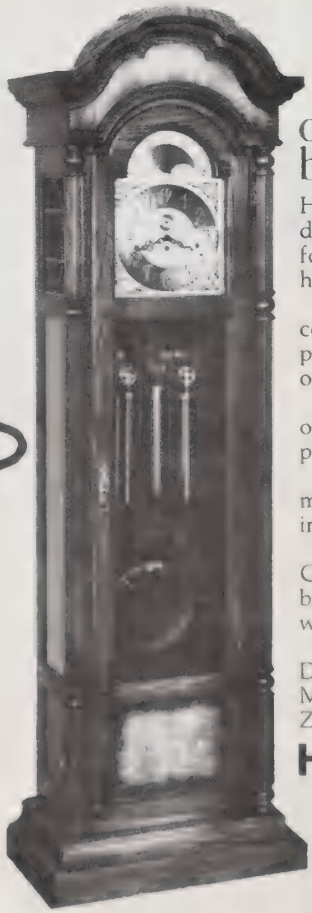
A. Zagaroli



A Zagaroli original in olive ash burl and solid oak.

Here, Zagaroli set out to design a clock that will be the focal point in your home. And he succeeded.

His unusual use of rare and costly olive ash burl veneer on pediment and base are as typical of Zagaroli as his signature.

You'll find the light brown olive ash an exciting counterpoint to solid oak.

Fluted columns support the molding above the dial with its individually cast spandrels.

Like all clocks of the Zagaroli Collection, this one has a solid brass plate reserved and engraved with the name of the owner.

For a better look at the Dresden, visit your Howard Miller dealer. Ask to see the Zagaroli Collection.

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JERRY FREDRICK

Gilded foyer *leads to opera and ballet at San Francisco Opera House, one of many locations for summer festival*

San Francisco's first summer festival

Don't come to San Francisco expecting to find Salzburg, Spoleto, or Edinburgh. But as the first San Francisco Summer Festival gets underway this month, what may impress most is the cultural variety the host city offers. About 150 nonprofit museums, street fairs, and performing groups are participating in the affair, May 28 to August 15.

In dance alone, the 20-some troupes range from the San Francisco Ballet and the visiting Joffrey to Peruvian classical dance, high-stepping solos performed to Ozark fiddles, and a terpsichorean paean to localite Isadora Duncan on the 104th anniversary of her birth.

Every event is being compiled on a calendar, which you can pick up at box offices of participating groups, the San Francisco Convention and Visitors Bureau, and city hotels, or by writing to Festival, 1182 Market St., Suite 311, San Francisco 94102.

If the calendar doesn't persuade you to graze in unfamiliar cultural pastures, perhaps a new ticket voucher system will. For many performances, when you purchase a full-price ticket you receive a voucher that lists groups giving up to $4 off the ticket price. You can keep buying tickets at a discount during the season.

Underwriting the festival are a $100,000 grant from the city and an equal amount from sponsoring groups. For more information, call (415) 861-2787. □

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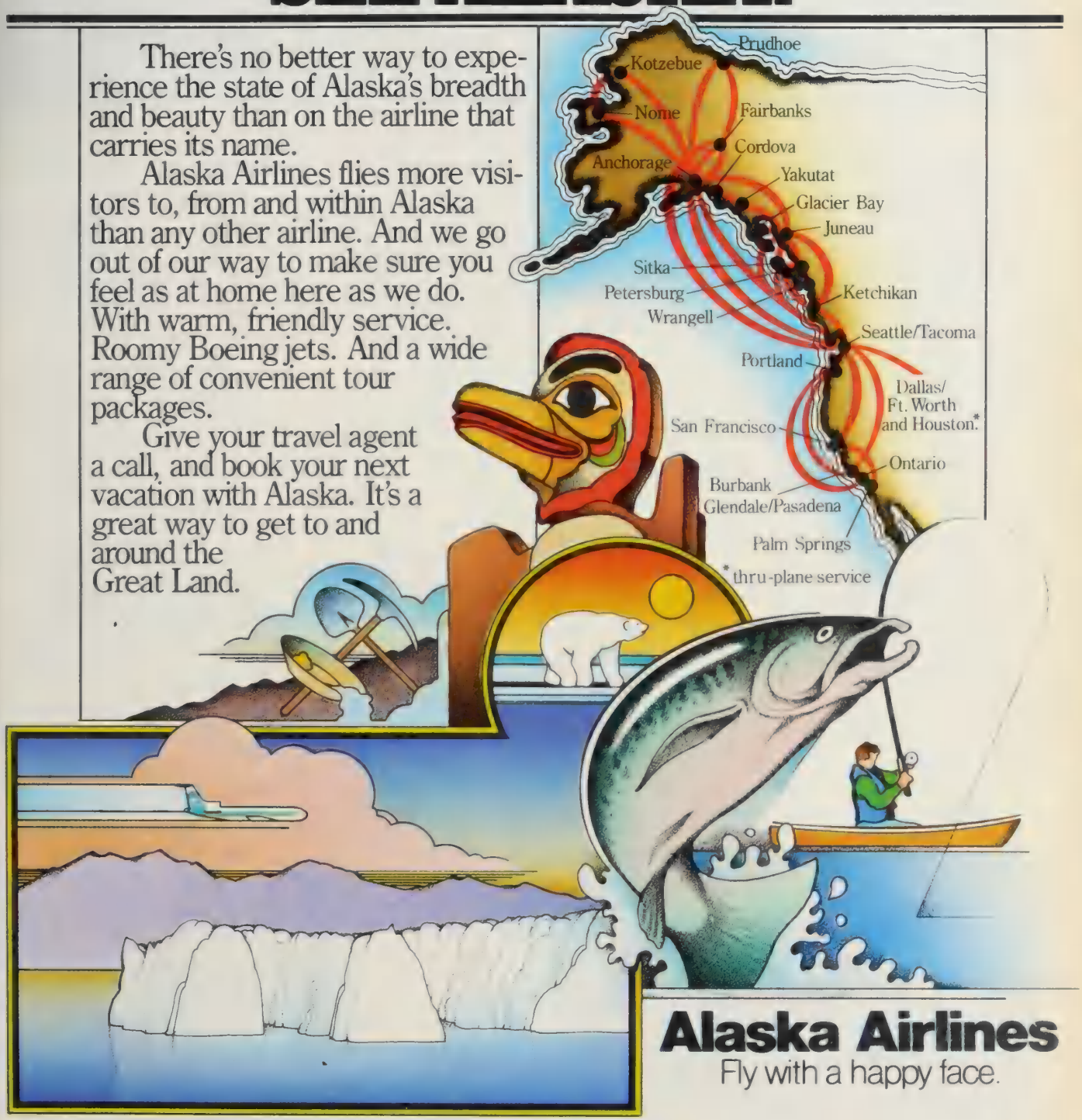
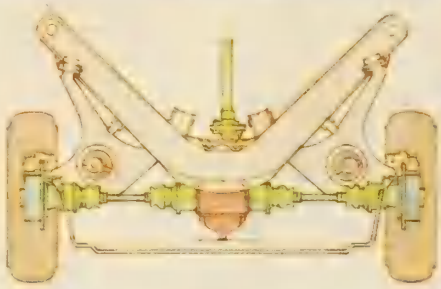
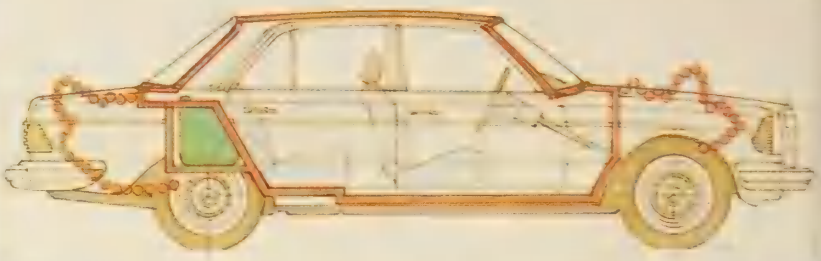


Alaska Airlines

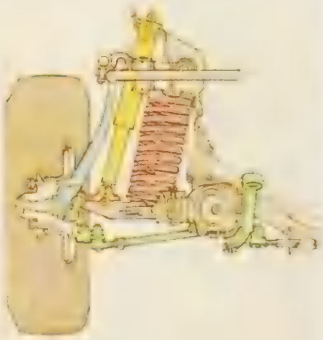
Fly with a happy face.



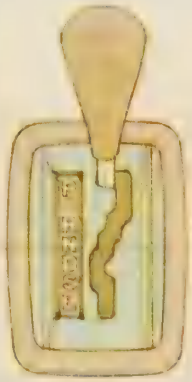
Overhead view of diagonal pivot rear axle, a key element of the 300D's elaborate fully independent suspension system. To Mercedes-Benz, sports car handling and sedan handling should be the same.



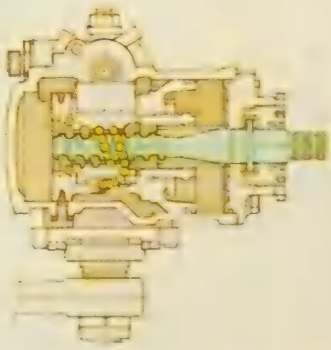
There are 120 safety features incorporated in every 300D–and the car's body itself is one. Front and rear sections are carefully devised to progressively yield on heavy impact (dotted lines), managing kinetic energy before it can be transmitted with full force to the passenger area within.



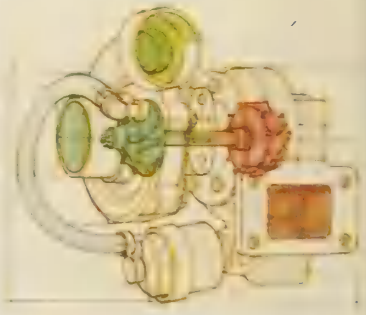
Zero-offset geometry of front suspension mobilizes esoteric physics to guide the 300D along a true forward path.



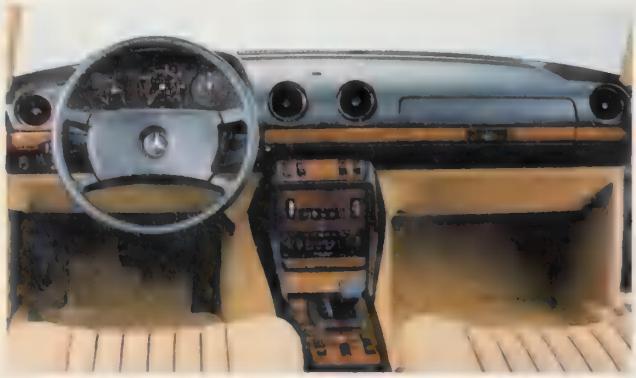
Floor-mounted shift lever connects to a rugged four-speed automatic gearbox.



Twenty-four tiny ball bearings form the heart of the 300D's exquisitely smooth and precise recirculating-ball steering system.



The 300D's rank as America's most potent diesel automobile owes much to this 17-lb. piece of engineering brilliance: a turbocharger.



Instrument panel of the 300D is not decked out with gadgets but laid out with ergonomic exactitude. Look of rich wood is achieved by using rich wood.

300D's vivid performance is excelled by no other diesel automobile sold in America

The 300D Turbodiesel: the Mercedes-Benz engineers' idea of a $30,000* luxury sedan.

The luxury of superb technology permeates the 300 D Turbodiesel Sedan, creating superb over-the-road performance. Mere sport is not the goal: tenacious roadholding, sharp reflexes and precise control simply make better drivers–of aficionados and housewives alike.

The 300 D Turbodiesel boasts such extravagances as six separate brakes, seven shock absorbers, and a rigid unit body welded at exactly 4,786 points.

If these seem less seductive than tufted velvet seats or razor-edged styling, Mercedes-Benz engineers can only shrug. Seduction is not their aim. Providing you with the most precise possible driving instrument is.

Not a blunt instrument

There is deep satisfaction in an automobile meant to elevate your driving standards more than your ego.

For example, this 3585-lb., five-passenger sedan yields no ground even to sports cars on roller-coaster back-country roads.

It will not panic if suddenly thrown into a maze of S-bends in the rain.

Its steering system is not a blunt instrument but an almost sensually responsive mechanism–a liquid-smooth *recirculating-ball* mechanism, guided by 24 ball bearings, seemingly friction-free.

The 300 D's automatic transmission is no ordinary luxury-car automatic. The shift lever is down beside your right thigh, and can be manually actuated when you want to select gears yourself. (Note that this is a *four*-speed automatic.)

The 300 D's four caliper-type disc brakes are meant to keep stopping the car squarely and safely–even after repeated hard panic stops, even in the wet.

Mercedes-Benz engineers care little if the world knows that each brake disc measures 11 inches in diameter, or that the car's front suspension geometry is engineered to help minimize braking "nose dive." They care only that the driver is better off as a result of these and myriad other technical details.

Most powerful diesel in America

Those engineers have squeezed more power from the 300 D's five-cylinder, three-liter engine than other engineers have yet been able to extract from any other passenger car diesel–even huge V8's.

The crucial factor is *turbocharging* and its stunning extra thrust. It helps make this the best performer of any diesel automobile sold in America.

The performance story should not overshadow the efficiency story. Powerhouse that it is, the 300 D bests the mileage of virtually every luxury sedan you can buy today–with EPA numbers of 27 mpg city estimated and 33 highway.** Conventional tune-ups? Never.

No artificial ingredients

The 300 D's designers made no attempt to decorate it like a luxury car. They were too busy making it an aerodynamically clean, spatially efficient car.

Electronic cruise control, electric window lifts, AM/FM stereo radio/cassette player, bi-level climate control system–what conventional luxury sedans offer by way of conveniences, so does the 300 D Turbodiesel Sedan.

Only garishness is absent. The instrument panel is no entertainment center twinkling with gadgets but an exercise in ergonomic exactitude: white-on-black gauges, instantly activated controls, unobstructed visibility.

Seats are constructed and upholstered for the luxury of proper support on all-day drives. This explains the firmness that may startle the uninitiated.

Interior wood trim is genuine zebrano wood: handworked, fitted and finished. A small thing that epitomizes this car's unremitting honesty of design–as its 120 built-in safety features epitomize its seriousness of design.

The luxury of retained value

The 300 D Turbodiesel can point to one final advantage that no domestic luxury car can even approach: as a Mercedes-Benz Turbodiesel, it belongs to a group of cars that have been shown (according to the February 1982 *N.A.D.A. Official Used Car Guide*) to retain over *88 percent* of their original value after the first three years.

*Approximate suggested advertised delivered price at port of entry. **EPA estimate for comparison purposes. The mileage you get may vary with trip length, speed and weather. Actual highway mileage will probably be less.

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Engineered like no other car in the world

KATHLEEN PREVOST

When dogs are in the country, both are in peril

No-nonsense *signs ("Dogs . . . may be shot") are part of new Sonoma County campaign to enforce leash laws, protect livestock. Dog owners protect their pets by heeding such warnings*

When you bring a citified or suburban dog with you to the country, it's important to respect the mutual impact of rural environment and visiting canine. With a little thought, a sensitive owner can do much to keep each safe from the other.

Protecting the country from the dog

If livestock could be in the area, don't let your dog run loose, even for a few moments. Depredation due to free-running dogs is increasing dramatically (last year it amounted to $250,000 in one northern California county alone). As the problem worsens, more ranchers are resorting to a law that protects their investments in their herds: when they find a dog "molesting, injuring, or persistently pursuing" their livestock, they are legally entitled to shoot the dog. The dog's owner can be held liable for double damages, and could actually spend time in jail.

This is not an experience anyone would want, but many dog owners do not understand the possible consequences of letting a pet off the lead for an airing on a country road. Extending their pastoral dream to the canine member of the family circle, they do not think about how near livestock may be, how much harm a dog in their midst could cause, and how natural it is for even the sweetest-tempered family pet to give chase in the field. A dog can disastrously panic a flock of sheep without even taking a bite.

The damages mount swiftly: an ordinary sheep may be valued at about $500, and a breeding ram can be worth up to $5,000. The rancher's insurance usually cannot protect him against more than one big livestock depredation claim. After that, the losses threaten the eco-

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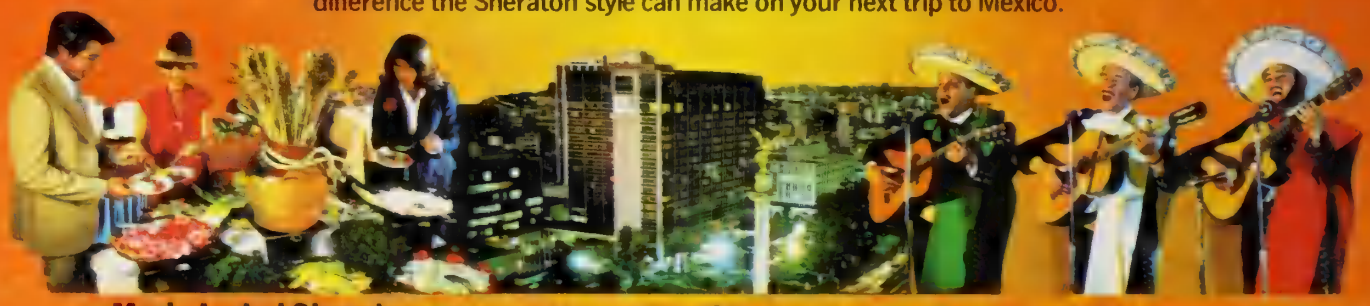

Maria Isabel Sheraton—A short stroll from Mexico City's finest business and fashionable shopping district, the Zona Rosa. Relax in the Jorongo bar to romantic Mariachi music, or dine on tempting Mexican cuisine at the Veranda.

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nomic viability of ranching itself. So, in a gesture less cruel than outsiders might think, he takes gun in hand.

Aside from ranch animals, your dog also has potentially damaging impact on many forms of wildlife and their habitation. For this reason, park rangers and animal control officers are quick to cite leash-law violators, and paying the fines can really put a damper on a vacation.

. . . and protecting the dog from the country

When you bring your dog into a rural setting, you can take certain steps to ensure your pet's safety and your own peace of mind.

Obey leash laws, for your dog's sake as well as the natives'. Aside from a rancher's gun, your free-running dog is vulnerable to bites from other animals, to ticks, and—especially in dry weather—to foxtails, nettles, and burrs. After a romp in open country, your dog could also give you a case of poison oak from the plant oil on his coat.

Keep shots current. Bring a recent certificate of health from your veterinarian as well as a current rabies certificate (not just the tag), especially if you are crossing state borders. Rabies may not be a problem where you live, but it is carried by different vectors in different areas, and without the certificate you won't be admitted to many park campgrounds or day areas that otherwise accept pets. Get your dog an annual DHLPP booster (distemper, hepatitis, leptospirosis, parainfluenza, and parvovirus), and be sure it's administered at least 14 days before your departure. (For low-cost clinic shots and neutering, check with your nearest animal control officer or humane society.) At the same time you get shots updated, you might ask your vet about preventive heartworm medication.

Provide adequate identification.

If a long absence is planned, you might notify your local licensing agency (the one the dog's tag would lead to) that you will be away, and explain how to reach you or a person who will accept responsibility for the dog.

A dog's collar, unfortunately, can be lost or removed. A permanent form of identification is the relatively painless tattoo, usually the owner's social security number, done on the inside of the right hind leg; check with a reputable breeder on where to get a tattoo done. Then register the tattoo with an organization such as the National Dog Registry (Carmel, N.Y. 10512) so the dog can be traced to you.

Help on where to stay

For a 62-page booklet called *Touring With Towser* that lists hotels and motels that accept pets, send $1.25 to Gaines TWT, Box 1007, 3 Steuart Dr., Kankakee, Ill. 60902. □

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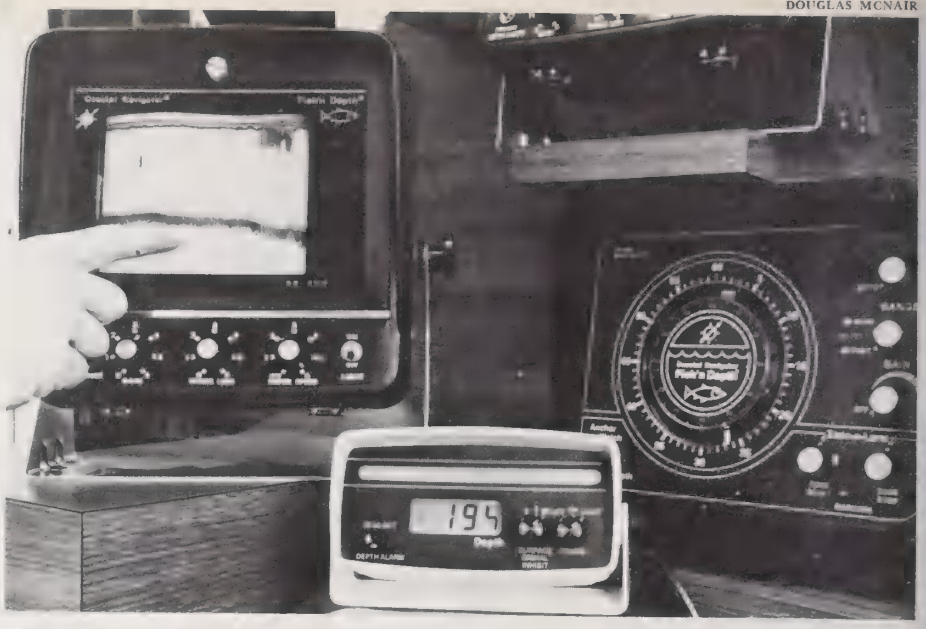
DOUGLAS MCNAIR



Three types *of depth finders, left to right: graph recorder, digital (not preferred for fishing), and flasher*

It takes some of the sport out of fishing, but anglers can better their odds of catching fish by watching "TV." That's fishermen's jargon for depth finders or sounders—small sonar sets, often with screens, that are accurate enough to show water depth, schools of bait, and even single large fish.

From San Diego to Seattle, many saltwater anglers have come to rely on these battery-powered gadgets of the electronic age. Fresh-water fishermen also use them on inland lakes and broad, deep rivers. Usually smaller than a breadbox and weighing less than 6 pounds, depth finders are compact and portable enough to be mounted on craft as small as a kayak or even a float tube.

How a depth finder works

The heart of the finder, in electronic parlance, is a small transducer unit that acts as both speaker and microphone. It broadcasts a cone-shaped beam of sound waves underwater, then "listens" for the waves as they bounce back from the bottom or from some object in the water. The varying intensity of these returning echoes indicates depth of objects, which are plotted on a fixed

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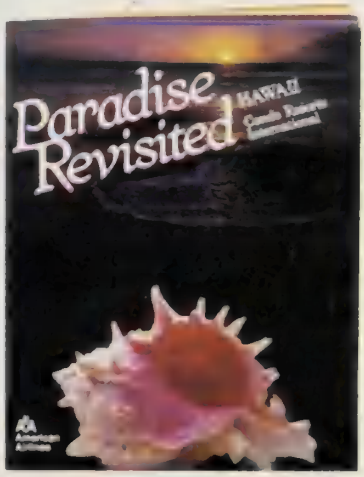

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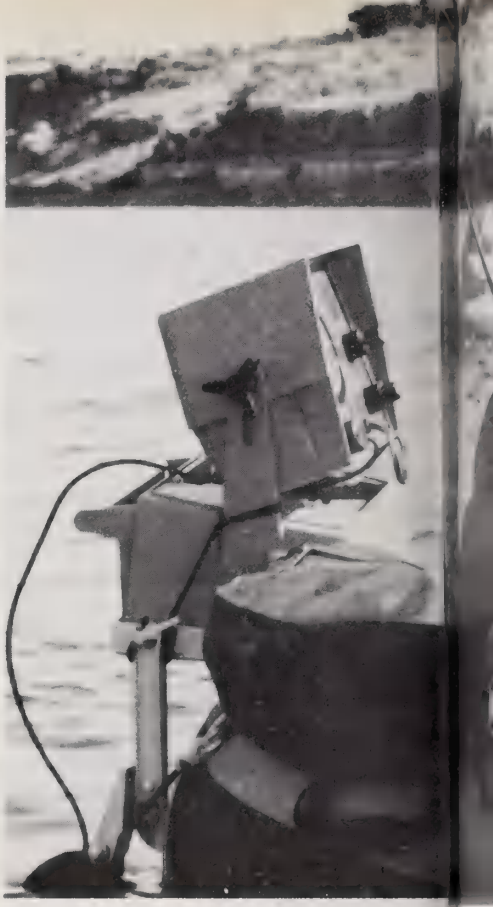

Lightweight, compact *depth finders like th*

scale—a screen or graph. When a school of bait fish or a large game fish enters this beam, it interrupts the echo and registers as a blip of light on a screen or a line on a graph.

Basic controls are similar to those on a CB radio. A gain switch increases sensitivity; a suppression switch reduces interference. Using these controls to fine-tune your set, along with proper mounting of transducers, are essential.

Depth finders used for fishing send out a broader beam of sound (about 22°), which takes in more underwater area than the narrow-beam devices used for navigation.

Where to find the finders

Some half-dozen manufacturers market at least two score models of fishing depth finders in the West. The best place to shop is at a larger sporting goods, tackle, or marine supply store where you can often compare several models.

There are three basic types: graph recorders, flashers, and digital units.

Graph recorders are the most sophisticated and expensive ($500 to $1,500). They display graph readouts of bottom contours, fish, or obstructions (a reef or wreck, for example) on a moving roll of paper in a manner similar to a seismograph's recording of earth tremors. Properly installed and adjusted, many graph recorders can show detail as small as a single fish rising to strike a lure.

DOUG & BEV MCNAIR

sher model can even mount on float tubes

Flasher units are popular because of their lower prices ($150 to $400), but are more complicated to read. Flashers show the bottom as a steady band of light on a graduated dial. Fish and other objects are indicated as smaller blips of light that show up between the bottom and the surface. Flashers come in different depth ranges, styles, and sizes, including very portable units; many have fish alarms that buzz.

Digital units ($200-$500) are difficult for fishermen to interpret and are not recommended.

All finders come with detailed installation and operating instructions. Owners typically install them. However, some suppliers will do this (for $25 to $40) if you can bring in your boat. Most units operate from a 12-volt battery, often the one that starts the boat motor. Portable units rely on motorcycle batteries.

What kind of finder for you?

Some depth finders are designed primarily for fresh-water use, others more for salt water (they tend to be more powerful). Power output (rated in watts) is the essential factor determining how clear a picture any finder can provide, so the deeper the water you expect to fish, the more power you'll probably need.

If you want a very portable finder, consider one of the flasher units. If you own a fairly large boat and do a lot of saltwater fishing, a graph recorder might be a better investment. □

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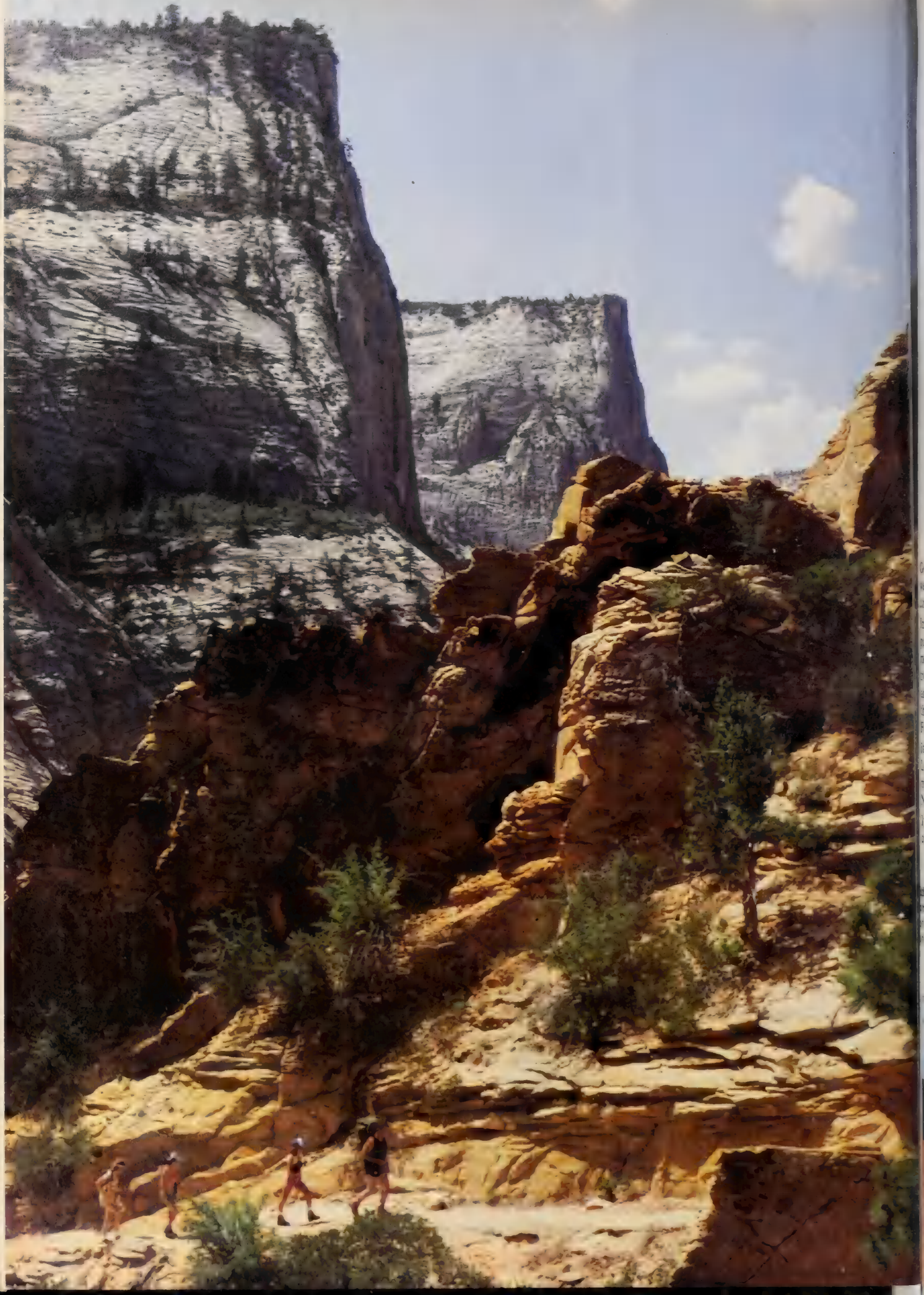


Sandstone and Shakespeare in southwest Utah

In a big wide-open corner of the state, geology is always on stage. In summer so is the Shakespearean Festival in Cedar City. And there's much else . . . hiking, fishing, open roads, cowpoke towns

Golden ocher, red sienna, and burnt umber paint the southwest corner of Utah in vivid tones. Ruddy cliffs rise near rust-colored sand dunes, both tinged by an ore-daubed brush.

In this scenic corner, containing almost 2½ million acres of public land in parks and forests, much is wild and untrammeled. Besides unpeopled hiking trails, open roads, and fine trout and bass fishing, there are the cowpoke cafes of Kanab and the sleepy motels of Springdale. More surprising may be the plush hotels of St. George and the polished Shakespearean Festival in Cedar City.

It's a landscape of contrasts, color, and change. Not far from Las Vegas (125 miles southwest) and the Grand Canyon (125 miles southeast), this territory was once largely overlooked. Now it's the fastest-growing part of Utah.

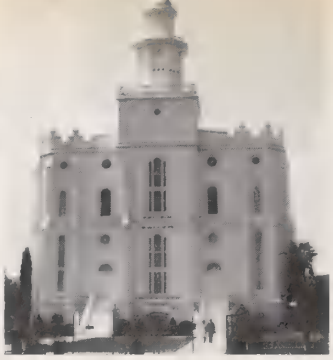
Its most stunning feature, of course, is its geology. Nature has carved striated cliffs and tortured spires that tell a story of

gh in craggy back country *of Zion tional Park, East Rim Trail climbs t Navajo sandstone cliffs; flat-topped ble Mountain dominates background*

Coral Pink Sand Dunes, *near Kanab, get their color from iron oxides in the eroded sandstone that forms them*

JERRY FREDRICK

Prelude to plays *at Shakespearean Festival in Cedar City is a free performance by dancers in front of replica of Tudor-style theater*



Mormon Temple *in St. George wears dazzling white plaster face over sandstone*

Placid *Main Street of Kanab belies town's nickname: Little Hollywood, for all the horse operas filmed nearby*

JERRY FREDRICK

Where the Lone Ranger rode *(for the old television series): Movie Ranch in Kanab serves Western barbecue*

earth-shaping processes that began 200 million years ago and are still at work.

Today, after a sudden summer thunderstorm, you can see the erosion process continue in Zion Canyon as the Virgin River boils through, eating away at sandstone banks. To the north, the Cedar Breaks area tells a different story—of wind, rain, and ice eroding a giant amphitheater out of limestone. To the west, Snow Canyon shows the forces of volcanism in cinder cones and lava beds.

If your visit is short, don't miss Zion National Park: by day or moonlit night, the 6,744-foot Great White Throne in its main canyon is awesome. Cedar Breaks National Monument is another must see: look down from 10,350-foot Point Supreme into the wildly colored and eroded basin below.

The attraction of this painted rock country inspires most visitors who have come any distance to round out a week by visiting two other nearby national treasures: Bryce Canyon National Park is about 2 hours northeast of Zion, and the Grand Canyon's North Rim, southeast of Zion, is equally close.

(You might combine a week in southwest Utah with a week of houseboating and fishing on either of two huge lakes: Powell is 75 miles east of Kanab, Utah; Mead is 100 miles southwest of St. George.)

Your base may be St. George or Cedar City. Zion, Bryce, and North Rim are all handy

Accessibility, "temperature strategy"

A 50-mile stretch of Interstate 15 between St. George and Cedar City provides primary access to points of interest. Before you explore, consider terrain and climate.

Southwest Utah belongs to the Colorado Plateau; elevation and terrain range from gentle hills at 2,600 feet to rugged spires at 11,200 feet. Summer temperatures have a similarly wide range. At low-elevation parks, such as Snow Canyon, June offers pleasant 80° days, August brings blistering 100°-plus days. High Cedar Breaks hits 65° in June, 75° in August.

Temperature strategy can help you plan activities. In the mornings, explore at lower elevations. As temperatures climb, so should you. At Zion, for example, you might take the scenic canyon drive in the morning, then head up into the park's higher Kolob Canyon section by midday. When the sun sinks, head for Cedar City for an open-air Shakespeare play performed under the night sky.

Your scheduling might also take into account photographic considerations: gentle morning light is best on the White Throne and cliffs of Zion Canyon. Late-afternoon light at Cedar Breaks or Coral Pink Sand Dunes provides rich color saturation.

Hiking trails can take you quickly into the back country: it's arid and rugged, so always bring water, wear sturdy boots, and watch for desert denizens such as rattlers and scorpions. All the campgrounds have water (except Lava Point in Zion's Kolob section), but none can be reserved; where possible, call to check availability.

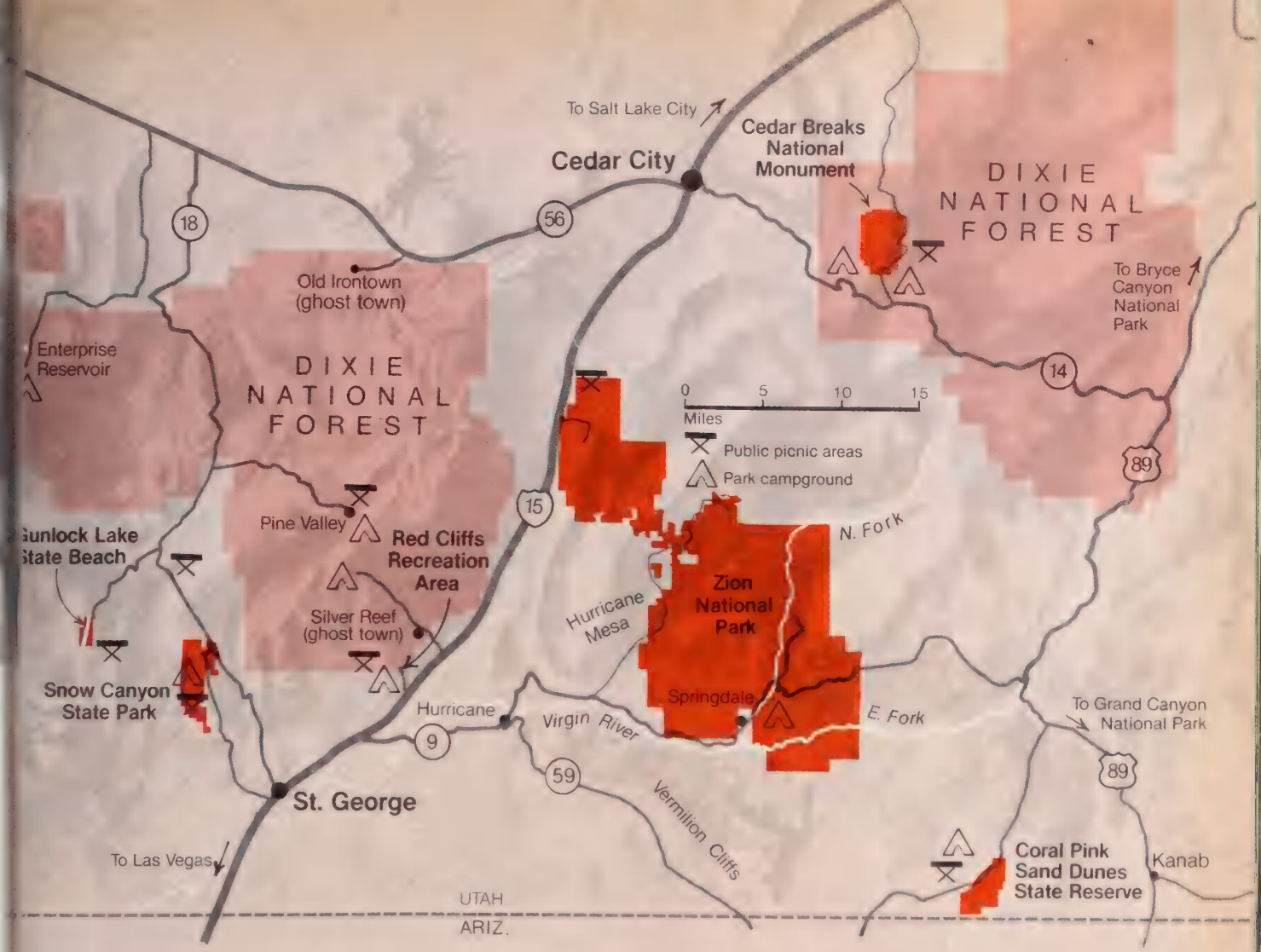
From the Anasazi to Brigham Young

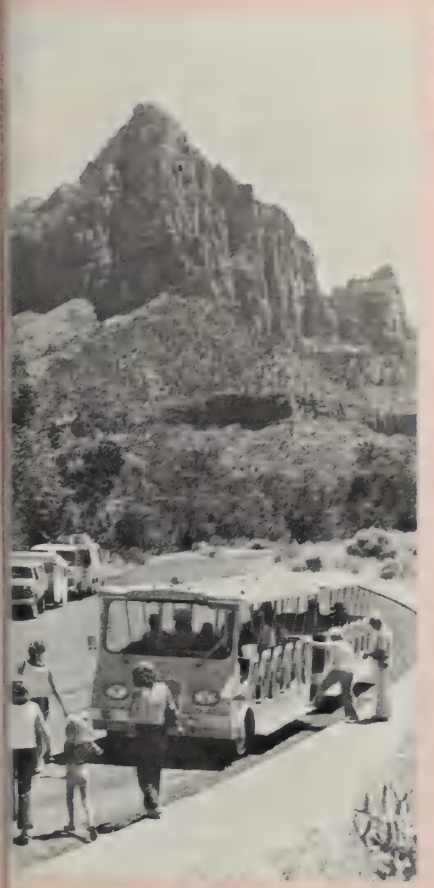
As you explore, you'll crisscross the paths of early residents and explorers. Little is known of the first people to live here—the ancient cliff-dwelling Anasazi, who left behind ruins (most inaccessible).

In 1776, the expedition of padres Dominguez and Escalante surveyed a route historian Bernard De Voto has called "all arroyos, gulches, canyons, mesas, mountainsides, ridges, labyrinths, mazes, rock slides." Today, State Highway 18 parallels the old "Spanish Trail" they explored. Taming the land was left to Brigham Young and Mormon pioneers.

Sandstone temple in St. George, scenic state park in Snow Canyon

Once a small ranching community, St. George has recently doubled in size and built an airport. Dominating the town is the gleaming Mormon Temple, built in 1877 of sandstone covered with white plaster; it's at 401 South and 300 East streets (grounds are open 9 to 8 daily). On the town outskirts, major hotels, restaurants, and golf courses have popped





Quiet-running *open-air tram in Zion National Park carries visitors on low-cost sightseeing tour*

Just across the Utah border, 6 parks and a national forest in a land of canyons, cliffs, and mesas

Cedar Breaks National Monument. One main road skirts the rim of a spectacular basin filled with rose-colored ravines, twisted spires, graceful arches. Ancient bristlecone pines survive at elevations up to 10,300 feet. Guided tours leave the visitor center (open 9 to 5 daily) at 10 and 1 each day. There's camping in 30 sites ($3 per night). Open mid-May to October.

Coral Pink Sand Dunes State Reserve is a 4-mile-long island of magenta sand at 6,000-foot elevation. You can hike at will over the dunes' endlessly changing contours, but watch for dune buggy traffic. Open year-round; 22 campsites ($4 per night); day-use fee is $2.

Dixie National Forest. In the Pine Valley Mountains, you can picnic, camp, or hike at cool elevations. Look for mule deer, occasional black bear, and cougar. There are three campgrounds ($4 to $8 per night). At Enterprise Reservoir, you can camp, fish for trout. The Markagunt Plateau in the Cedar City district offers more camping plus good trout fishing in streams. For information, call (801) 586-2421. Open mid-May through October.

Gunlock Lake State Beach edges a cool, blue 240-acre reservoir set in sage-covered hills, with tables, a swimming beach, and a boat ramp. Bass fishing is best in the morning, before water-skiers churn the water. Open year-round.

Red Cliffs Recreation Area. Early morning light sets colors aflame in sandstone cliffs towering above this small 13-site campground (no reservations). Open year round; heats up in July and August. Popular for rock scrambling.

Snow Canyon State Park. Some 10 miles of trails radiate from the main park road through cinder cones and massive mounds of stratified sandstone. Look in the dunes for cottontail rabbit, scarab beetle. There's camping at 23 sites ($3 to $5 per night). Open year-round; shaded picnic area.

Zion National Park. Among its 230 square miles are wide mesas, colorful rock formations, narrow canyons. Camping is popular in 373 unreserved sites; arrive by noon to get a spot ($4 per night). For lodging in motel-like Zion Lodge or in rustic cabins, call (801) 586-7686. (Gateway town Springdale has modest motels.) The park visitor center (9 to 6 daily) has books and maps; ask about daily ranger-led walks. Park is open year-round; $2 entry fee is good for two weeks.

Note: our map shows only the major campground concentrations.

up; for more information on lodging, telephone the Chamber of Commerce at (801) 628-1658.

Northwest of town, the road winds through strangely beautiful Snow Canyon State Park with its pock-marked orange cliffs towering over black lava tubes and sandstone mounds.

Farther north in Dixie National Forest, you can fish for trout in the Enterprise Reservoir or hike in the proposed Pine Valley Mountain Wilderness Area on either the Whipple or Forsythe trails; check with the St. George ranger at 196 E. Tabernacle Street, Room 40; or call (801) 673-3431.

Zion National Park . . . by tram, trail

Carved by rain, wind, and the Virgin River, Zion National Park, east of St. George, is Utah's most popular park. The towering Temple of Sinawava and the Great White Throne draw crowds to Zion Canyon. A new master plan for the park should help ease summer congestion with new lodging, trails, and public transportation.

You can try out one part of the plan's transit concept: an open-air tram ride (2 hours) through the canyon. It leaves Zion Lodge and the visitor center daily between 9 and 5; cost is $2.50 for adults, $1.25 for children.

The park's higher Kolob Canyon section (35 miles north of St. George off I-15) is fine for picnicking or hiking: walk on 3½ miles of fairly easy trail to the lush Middle Fork of Taylor Creek. A 14-mile round-trip trek (carry water) along Timber Creek Trail takes you to Kolob Arch, a freestanding 300-foot span.

JERRY FREDRICK
At 10,500 feet, *hikers on new North View Trail overlook sculpted Cedar Breaks basin; short trail leaves from park's northernmost parking lot*

Pink dunes and Kanab cowboys

East of Zion, soaring cliffs give way to rolling sage-covered hills. From the park, continue east on State 9, then turn south on U.S. 89 to the turnoff for Coral Pink Sand Dunes State Reserve. The striking color comes from the iron oxides in the fine-grained sand. This month, yellow mule's ear wildflowers should be blossoming over the dunes.

Farther south on U.S. 89 is Kanab, an old ranching community that retains its cowtown charm. Zane Grey lived here while writing his novel *Riders of the Purple Sage*, in which he lauded the area's "vast heave of purple uplands, castle crowned cliffs, and gray escarpments."

Hollywood film crews have long used the nearby countryside for Western movie locales. You can visit and have a barbecue dinner on the former set of *The Lone Ranger* television series; call the Kanab Movie Ranch at (801) 644-5170 for reservations and directions. In Kanab proper, there are several cafes and commendable restaurants. For lodging help, call (801) 644-5229.

Shakespeare in Cedar City

Each summer, the Cedar City campus of Southern Utah State College plays host to the Bard's marvelous mix of monarchs, murders, and merrymakers during the annual Shakespearean Festival.

This season's festival will run from July 15 to August 28, and you can still make reservations for *As You Like It*, *Romeo and Juliet*, and *Henry IV, Part II*. Plays are performed in repertory fashion in two theaters (one an open-air Tudor style), so you can see them all in a weekend. Saturday matinees are at 2, night performances at 8. Each evening at 7:15 (except Sundays), there's a free "green show" of music and dance. There are also backstage tours.

For a schedule, reservations, or tickets, call (801) 586-7878. Tickets cost from $7 to $10; each morning at 10, some 40 tickets are released at the campus box office for that day's performances (sell-outs are common). Standing room ($3) is sold after 10 A.M.

Cedar City has a dozen hotels and motels; call (801) 586-4484.

Stunning vistas at Cedar Breaks

If all the world's a stage, then Cedar Breaks National Monument could be its prettiest amphitheater. From the visitor center at 10,350-foot Point Supreme, you look out over a maze of ravines, where ice, wind, and rain have etched through a top layer of white limestone and down into layers of coral- and rose-hued sandstone. This terrain earned the name "breaks" (badlands) from pioneers.

From the visitor center, the 2-mile Wasatch Ramparts Trail will lead you to Spectra Point for more impressive views.

Logistic help for visitors

Southwest Utah is about a 10-hour drive from Los Angeles (through Las Vegas), about a 5-hour drive from Salt Lake City. Sky West Airlines flies to both St. George and Cedar City from Las Vegas, Salt Lake City, Flagstaff, and Phoenix. You can rent a car at St. George and Cedar City airports.

For a complete campsite or motel/hotel directory, write to the Utah Travel Council, Council Hall - Capitol Hill, Salt Lake City 84114. ▫

High-country camping, striking panoramas . . . especially on 10,500-foot North View Trail

If trees could speak, *this 1,600-year-old bristlecone pine would have many tales to tell about its rugged life in Cedar Breaks. Visitors can see the monument's oldest tree on a guided nature walk*

Cool, tree-shaded sites, *like this one in Dixie National Forest, await the high-country camper*

Tackling a big party, as we've learned from our readers, takes flexibility, planning, nerve

DAVID STUBBS

Tennis tournament *participants break for a salad lunch. Two kinds of salads are dressed and mixed shortly before serving. Guests watch pros demonstrate while eating*

1 · Salad buffet and tennis for 200 . . . it's cooperative

2 · Champagne, black tie, and hot dogs . . . "absurd frivolity"

Formally attired *guests serve themselves to hot dogs with all the trimmings; cake and ice cream cones will follow. No dishes are needed, just big napkins*

GLENN CHRISTIANSEN

Last spring, we asked readers for their experiences in entertaining a large crowd. Their responses supplied much of the material for the six parties in this report.

Whether the party was for 50 or 800, common patterns emerged. Large-scale parties were cooperative efforts. They took place in warm weather, when living space can be expanded outdoors and the party can be combined with other outdoor activity. The open air also establishes a degree of informality that gives greater flexibility—and easier cleanup.

For the food, large-quantity recipes were rarely used. Farming out favorite recipes in family-size portions eliminated the need for big pots, utensils, and equipment. Menus mentioned frequently were the salad meal, buy-and-serve meal, hot-and-cold buffet, cook-it-yourself dinner, roast with vegetables, and one-pot dishes.

Buffet service and use of disposable dishes minimized the need for help and simplified cleanup. Good planning allowed hosts to enjoy their own parties. For more help on logistics, see page 172.

Salad lunch for 200

Every spring, the Los Lomitas PTA in Atherton, California, hosts a tennis tournament and salad lunch. Games are played in the morning at private courts; as players finish, they gather at one house for lunch and a tennis exhibition.

Fresh Fruit on Skewers
Spinach Salad **Chicken and Rice Salad**
Baklava
Wine Punch, Iced Tea, Coffee

Each year, a committee taste-tests new salads and selects two. You can use any combination of salads that make a balanced meal. Dessert can be any make-ahead confection.

All preparation is a cooperative effort. Ingredients for 10-portion units of the salads are prepared by 20 members and delivered to the house where lunch will be served. Three members of the food committee make dessert several days in advance.

The morning of the party, this committee is joined by about a dozen helpers. Last-minute work includes assembling fruit skewers, making dressing and tossing salads, and making beverages.

Because guests don't arrive all at once, one buffet table handles traffic without any waiting. When parking is limited, a shuttle service is arranged; see page 86.

Buy-and-serve bash for 50

The invitation specified black tie, champagne, and hot dogs—lending the party an air of absurd frivolity.

Hot Dogs and Rolls
Sliced Onions, Pickle Relish, Mustard, Catsup
Dill Pickles
Ice Cream Cones **Sheet Cake**
Champagne **Cider**

Five people planned and ordered all the food, which they picked up on the day of the party. The committee plus two helpers set up separate tables for the entrée, dessert, and champagne; placed condiments in serving dishes; and heated the hot dogs. Glasses and one large silver chafing dish were rented, while the remaining silver serving dishes were borrowed from friends. Food was served buffet-style; no silverware was needed. Since seating was limited, guests ate standing up. A string quartet provided background music.

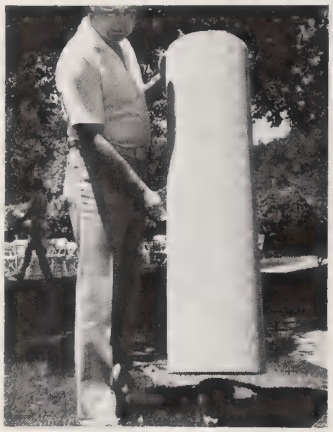
About 50 large hot dogs and buns, 2 gallons of ice cream, 50 cones, a sheet cake (about 15 by 19 inches), and 40 bottles of champagne were served.

Another buy-and-serve menu may offer

3 · Garden party for 800 . . . lessons in logistics, storage, shuttling —and menu variety

GREGG MANCUSO

Young family members *help too, cleaning the courts for dancing*



Colored cardboard *covers sprinkler head, prevents tripping*

Borrowed refrigerator truck *holds food cool for 800*

Double-faced masking tape *keeps tablecloths from blowing*

Shuttle bus *carries guests to party from shopping center parking lot*

Guests *serve themselves to three different menus*

lox and bagels or corned beef and rye with appropriate condiments.

Hot-and-cold buffet for 800

For the last 15 years, a committee of the Family Service Agency in Sacramento, California, has hosted a fund-raising garden party. With such experience, they feel confident tackling ambitious and sophisticated menus; last year's event featured three different menus.

EARLY CALIFORNIAN

Sliced Roast Beef with Sourdough Rolls
Poached Salmon with Dill Sauce
Asparagus Vinaigrette
California Almond Cheesecake

ASIAN

Spinach-wrapped Chicken with Sesame Dipping Sauce
Mandarin Meatballs
Rice and Chinese Pea Pod Salad
Fortune Cookies

HISPANIC

Chili Con Carne **Tortillas**
Salsa and Chips
Zucchini and Olive Salad
Chili Cheese Squares
Strawberries to dip in Chocolate-Mint Sauce

After a food chairman and 10 members selected a menu, they served a test meal to determine quantities more accurately. All food was prepared in advance by small groups or individuals, then stored in a supermarket's walk-in freezer (where many members were regular customers) and home refrigerators. The day before the party, all the food was transferred to the party site and held in a borrowed refrigerator truck. The morning of the party, the food was placed in serving containers (borrowed or rented).

Large tables, one for each menu, formed three food stations. Three bars set up by professional bartenders were scattered throughout the grounds, and floodlights were positioned to brighten the yard after dark. Because people arrived and left at staggered times, seating at tables for about 400 was adequate.

Shortly before the party, the meatballs and chili were heated in portable roasters, then transferred to large chafing dishes. Cold foods were placed on large buffet tables, appetizers on smaller ones. Guests, who arrived on a shuttle bus, served themselves using disposable plates and utensils. Helpers passed some food, replenished the buffet, and patrolled the grounds. Live music played throughout the party, and dancing on the tennis courts began as night fell.

Even if you served only one menu, the multiple serving stations should be preserved for this size of group; choose dishes that can be made ahead. For each menu, choose at least one protein-based

Cooking teams *bring food and stoves to cook their secret meatball entry, which must be made from scratch. Team members take turns cooking. After judging, everyone samples meatballs as supper proceeds*

DON NORMARK

Boccie team *toasts good shot. Games continue on lawn, with cooking done along the sidelines; there's plenty of room for spectators, too*

4 · Meatballs and boccie . . . guests compete at both

entrée such as cold sliced ham or turkey or a reheatable dish such as curry or shellfish casserole.

Serve with a starch such as bread, a reheatable potato dish, reheated pilaf, or cold potato or pasta salad. Cooked vegetables for salads hold best if the marinade is added shortly before serving; or offer raw vegetables with dip or torn greens with dressing to spoon over.

Cook-it-yourself meal for 200

For the past two years, two Seattleites have hosted an Italian extravaganza for 200. Inviting guests to cook their own supper outdoors was a solution to the limited space in their kitchen, and they turned the event into a day of contests—one for cooking meatballs and another for boccie, a simple lawn bowling game that does not require an elaborate setup.

Peanuts in Shells
Antipasto with Tuna
Meatballs
Freshly Grated Parmesan Cheese
Green Salad Bread
Watermelon
Beer, Wine, Soft Drinks

To get guests to mix, they were assigned to 10-member teams. Invitations were sent six to eight weeks before the party to allow enough time for teams to plan their recipes. Guests provided ingredients for meatballs (the supper entrée), cooking utensils, a camp stove and fuel, and their own light picnic lunches. The hosts supplied a table for each team, drinks, and accompaniments to the meat.

Teams had 4 hours to cook for the judging; boccie play was concurrent. Winners in both contests were awarded ribbons, and their names were engraved on a trophy. To screen party crashers and to make introductions easier, all guests were sent name tags.

For your cooking contest, choose any one-dish entrée—chili, stew, and paella are possibilities.

The hosts served 5 gallons of antipasto with tuna in tomato sauce (made four days ahead), salad made with 24 heads of lettuce and 2 quarts of dressing, 24 loaves of bread, 8 pounds of cheese, 5

5 · Grape crushers' picnic . . . roast chicken and corn. One cook does it all

ERIC LUSE

Working up an appetite, *friends remove bird netting from vines, then will pick grapes*

watermelons, 4 kegs of beer, 15 cases of soda. Guests ate it all.

Roast and vegetable picnic lunch for 70

In the fall when the Cabernet Sauvignon grapes are ripe, Tom Mudd invites friends to pick and crush grapes at his vineyard in Portola Valley, California. They are greeted early in the morning with coffee and rolls, then are sent to work. A hearty lunch follows the harvest. Here's last year's menu:

Roast Chicken
Dressed Corn on the Cob
on Romaine Leaves
Cherry Tomatoes
Baguettes Butter
Melons, Pomegranates, Apples, Grapes
Wheels of Jack Cheese Cookies
Wine Soft Drinks

The complete menu was handled by one cook, who shopped the day before the party. The next morning, 15 chickens were roasted, 5 at a time, in a large oven; it took about 3 hours total. Corn was cooked, in sequence, in a large kettle of boiling water, lifted out and dipped in a homemade oil-and-vinegar dressing with grated Parmesan; corn was mounded on romaine spears and some of the dressing poured over.

Whole chickens were piled onto platters, with poultry shears for cutting. Bread, apples, and cheese were served uncut; melons and pomegranates were cut into halves to be cut further for serving, and grapes were cut into clusters. Beverages were set in a big tub of ice.

Guests caravaned the food from the kitchen to the vineyard and set it on a long table. Service was casual buffet with disposable plates and napkins. Seating was on the ground.

Instead of chicken, you might roast turkey legs or boil crayfish or big shrimp. Whole green beans, slender carrots, or asparagus spears could be served in lieu of corn.

One-pot meal for 50

"Come and join us for bouillabaisse at the beach" read the invitation from Kathie Cooper and Françoise Kirkman. "Bring 1 pound fish (the variety specified) per adult, soup bowls, spoons, and beverages for your children. Wine and glasses will be provided."

Raw Vegetables with Vinaigrette
Dipping Sauce (optional)
Bouillabaisse (recipe on page 182)
Toast Rounds Garlic Mayonnaise
Baguettes
Fruit Cookies
Wine

The toast and mayonnaise for the soup were prepared at home. The morning of the party, the two chefs, two firemakers, and several helpers arrived at the beach to claim a fire ring. They brought a folding table (you could bring boards to form one) for cooking and serving. Water was brought in big containers.

While they waited for guests to arrive, the cooks cut and prepared vegetables for the appetizers and soup base (this could be done at home). About an hour before serving, the fire was started with pressed wood logs (you can also use wood). Their fire ring had no grate, so they used six 4-foot-long heavy steel rods (rebars) set over the ring to support the big 50-quart pot for the soup.

As guests arrived, their fish was put into a cooler. Another ice chest held the garlic mayonnaise and wine. Some of the guests helped cook; others enjoyed beach activities. When everyone had arrived, the fish was put into the hot broth to cook. It was lifted out when done and set in shallow pans.

The guests served themselves. Since they provided their own dishes, cleanup was simple.

A one-pot cioppino or steamed clams or mussels would be other good choices for parties in a casual beach setting. □

Everyone helps carry *hearty but simple lunch of corn on the cob, roast chickens, jack cheese, and fresh fruit from kitchen to vineyard table*

TERI SANDISON

After a morning of hard work, *a good meal and a rest are well deserved*

Waterfront cook *trims raw vegetables to be dipped in vinaigrette. Whole baguettes accompany meal; toasted rounds are to go into soup bowls*

Slow-simmered *over beach fire ring, the flavorful broth is checked for seasonings. Fish stays on ice to go in last*

MARGARET W. PETERSON

For each serving, *toasted baguette slices go in bowl. Then come mayonnaise sauce, fish chunks, broth*

As air grows cooler *and appetites are satisfied, leisurely beach-bouillabaisse party changes to include a warm campfire, guitar music, and a beginner's lesson in marshmallow roasting*

6 · Bouillabaisse at the beach. Bring a fish to throw in the pot. One pot feeds the whole gang

Discovering the grays

Plants with gray foliage make other plants look good. And most grays are water-thrifty, weather-tough

Gray rosettes *of Dudleya farinosa have lived for 20 years in this rock wall. They set off brilliance of nasturtiums. Gray-white hen and chicks (Echeveria elegans) are a readily available substitute for the Dudleya*

A good many gardeners have not yet discovered the soft, subtle, and sometimes dramatic beauty of gray- and silver-foliaged plants.

This large and extremely diverse group of plants includes annuals, perennials, shrubs, trees, and succulents. Most come from sunny, arid regions along the Mediterranean, in the Near East, and in temperate Australia.

In peak bloom, *flowers of pink dianthus and white cerastium obscure their foliage. Grays dominate when flowers are gone*

Though all-gray borders can be monotonous, the leaves contrast strikingly with greens and combine beautifully with flowers in shades of pink (especially old-fashioned roses), salmon, blue, and lavender. The brilliance of coral, scarlet, crimson, magenta, or yellow flowers is enhanced yet tempered by silver- and white-leafed plants.

Basically, the leaves of many such plants are green. They get their gray or silver coloring from a covering of white hairs. The density, structure, and length of the hairs determine the shade of gray, silver, or white. The arrangement of the hairs also determines the leaves' texture: fine, coarse, silky, velvety, woolly—or dull, bright, shining, or luminous.

Equally important, the hairy surface helps leaves to trap moisture and insulates them against heat, dryness, and desiccating winds. In foggy coastal areas, hairiness protects the grays and silvers against stormy blows, salt air and spray.

The photographs on these two pages give you some idea of the diversity that exists among gray-leafed plants. Here you see grays that bloom and grays that you grow just for the foliage. You also see leaves in many textures and patterns.

On page 220, you see some more textures, and you'll also find a chart that tells where and how to grow more than 2 dozen kinds of gray plants.

Following are the basic things you should know about planting and growing gray-leafed plants.

Planting time. At low elevations, you can plant grays and silvers at almost any time; avoid planting during the hottest weather in the low desert. In colder climates, wait until after frost.

Soil and drainage. Grays and silvers will grow in almost any kind of soil that drains fast. Too rich soil and too much water make plants lanky and may turn their leaves an unsightly green.

Pruning. On the whole, grays need little pruning. Some larger plants, such as *Artemisia arborescens,* may need pruning to control size. Others, such as *Senecio vira-vira* (*S. leucostachys*), which spread by underground stems, may need digging around with a sharp shovel. *Helichrysum petiolatum* needs fairly regular pruning to control spread; trim top when necessary to maintain desired height and prevent woodiness.

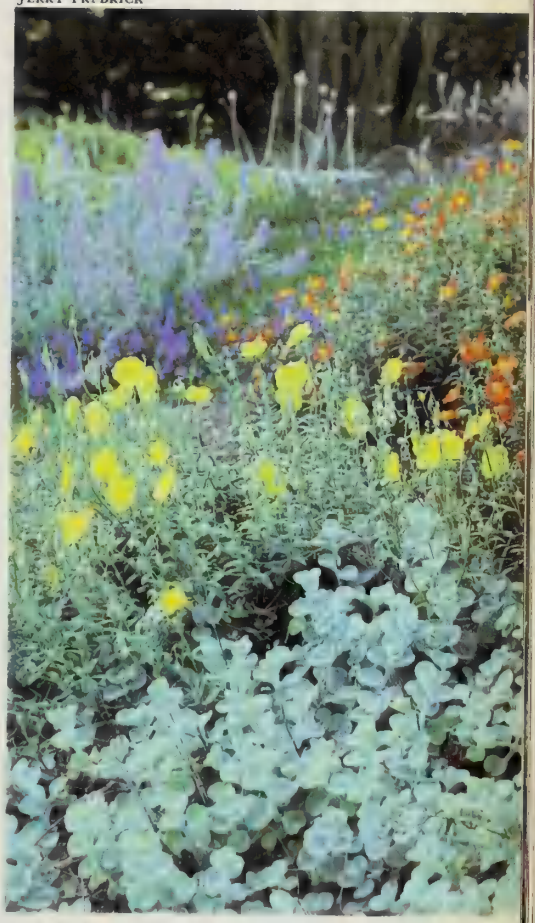
What about flowers? Some gray- and silver-leafed plants make a flower display. Eight of the most notable flower producers are shown here: in the picture at lower left on this page and in the pictures at far right on opposite page. But remember that grays don't have to flower to be beautiful.

If you find that the flowers are insignificant or detract from the foliage, you can remove them; this is best done by cutting their stems to the base. Deadheading (removing only the blooms) may not do the trick, because some plants will produce more flowering shoots below the cut. □

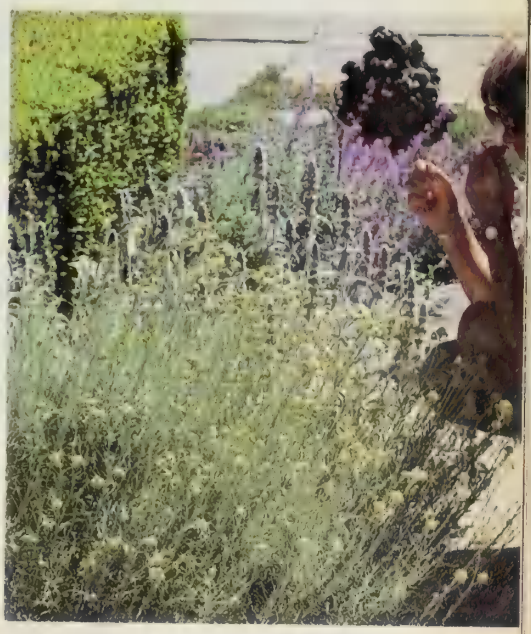
Cushion bush *(Calocephalus brownii), mixed with red geraniums, grows in planter on deck close to the coast (its best climate). Planted by Bob Takemoto*

NORMAN A. PLATE

JERRY FREDRICK



Woolly-leafed *Crete dittany grows with yellow- and orange-flowered sunrose, dark blue Veronica incana, lavender catmint*



Very aromatic *curry plant (Helichrysum angustifolium) grows in front of lamb's ears (halfway back) and catmint at rear*

DARROW M. WATT

It's an art party! *Squealing with delight, children paint big mural. Photographer's seamless paper (9 by 36 feet) costs about $25 at an art supply store. Plastic pipe, rubber-covered hooks, spring clamps, and a 1-by-3 bottom board complete the setup*

Nothing brings out the artist in a child like a big piece of paper

Shelf paper *mounted on small curtain rod makes room for a tall, skinny landscape. Paper roll could go on a wall, as well*

Drawing board *designed by architect John Blanton hinges up from wall, is held by chains and hooks. Paper on brackets threads under dowel, then under metal bar*

NORMAN A. PLATE

Shadow painting *is a favorite late-afternoon activity. Newsprint roll ends, less than $4 at newspaper offices, come in three widths*

If you can't comfortably imagine the activity shown in the color photograph taking place in your house, you're not alone. Painting has a special place in the hearts of children—and in the trepidations of adults.

But if you value the artist in your child and are willing to take on minimal risk, the big paper projects shown here can provide a summer of creativity and color.

Working on a large surface allows children more freedom than does a standard pad of paper. Their arms move unencumbered, allowing broad, sweeping styles to develop. Often the artist moves around his or her work to see it from many angles and perspectives. There's also room for the kind of communal projects that seem to delight younger children.

Big rolls of paper come in sizes from the 9-foot-wide photographer's backdrop to the 20-inch-wide roll of shelf paper. You can simply tack them to a fence or wall or build more elaborate support systems, as described here.

Of course, your own peace of mind is important, too. By assigning children an area, protecting it well with newspaper or plastic, and using washable paints and old clothing or smocks, you can avoid the continual warnings that can sour the painting experience. Who knows—the artist in you as well as your child might even emerge. □

Incognito: *spiraled ⅛-inch tubing neatly blends with wrought-iron plant hanger. It carries water to container's soil from emitter hidden on beam above*

Behind the scenes: *the camera stepped behind the post to find water line feeding this post-mounted basket. Quarter-inch tubing is stapled to post facing, continues downward to reach other pots*

Overhead drip-mist for hangers, post pots

Mist-clouded baskets of ferns, impatiens, fuchsias (more than 150 of them) join in-ground shade plants in this lath-covered gallery. All are drip irrigated. Pots each have two outlets: dripper for watering, mister for humidity and washing foliage. When Santa Ana winds blow, misters may come on as often as three times a day. Main lines turn along beam at right. Design: James Marineau Landscape, San Clemente, for Zel and Clark Loomis

For watering lots of pots, drip could be the answer

The challenge is how to rig up the tubes without making your garden look like an operating room. Four gardeners show how

Busy gardeners are discovering the great advantage of drip watering systems for their container plants: a turn of the faucet waters everything at once.

"I'm known as the lady who never has to water," comments Olivia Tanner, who nonetheless keeps several decks filled with outdoor foliage and flowers (see her deck garden on the next page). Easily automated low-volume (drip) watering is a boon for gardeners who travel frequently or have too many pots to handle with a watering can. For gardeners who work all day, it may be the only practical way of keeping quick-to-dry baskets moist on hot summer days.

No other watering system is designed to water containers so specifically—as the California greenhouse and nursery growers who pioneered the overhead drip system (they call it "spaghetti watering") two decades ago will testify. But at home, how do you rig up long lines of skinny black tubing without making your patio look like an operating room?

We followed professionals, and avid self-taught homeowners, to show how it can be done. The gardens on these and the following pages illustrate four successful home applications in a variety of situations; three have been in operation for more than three years.

You can tailor drip watering to any size of garden—from a few pots to several dozen. Manufacturers help out by offering home-scale equipment (pictured on page 97) with plenty of options and assembly instructions. You can go to a sprinkler store or contractor for help in installing a large or complex system.

How to hide it

Flexible, lightweight, and easy to work with, drip irrigation equipment can al-

BILL ROSS

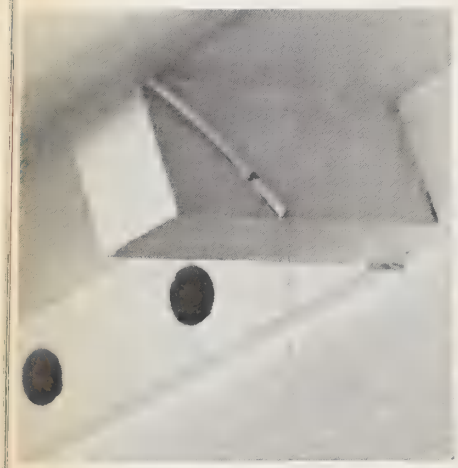
200 pot plants all on drip . . . and a time clock

Collectors Darrell and Norma Sleuter count kalanchoe, croton, ponytail palms, bromeliads, and ferns among their 200-plus containers. Adjustable emitters allow different water allotments. Rafter-mounted misters aim diagonally (like the lights) at plant shelves. Each container (left) has its own "tap" fixed to wall behind; ¼-inch elbow turns the corner. Water runoff drains through duckboard shelves to begonia border beneath. It's all controlled by a time clock

Where are the water tubes? Along the eaves, painted out

Permanent plants and flower baskets circle the entry. He's showing how a line of ⅜-inch drip tubing, concealed in the rain gutter, rims the house roof. Branch lines (pictured below) tap into it for overhead watering. Second line, painted white, hugs base of house wall, supplies pots (lower left) at ground level. Design by Jim McGuire of Care-Free Irrigation for Louise and Everett Mangam

BILL ROSS



White-painted *tubing extends from gutter-hidden line to send trickle of water from overhead rafter to potted privet below*

Emitter *from main line drips near base of plant in ground-level container. Wire stake positions the tubing*

Look up *to see how basket is watered—by mist head 2 feet above. Picture was taken before black tubing was painted; you can see its inconspicuous route from hidden main line*

most be made to disappear. You string up the polyethylene tubing almost as easily as you would outdoor wiring or television cables. It can be stapled to house walls, under doorsills, up wooden posts, and along overhead rafters.

The challenge is to find ways to drop tubing out of sight—camouflage it with paint, or hide it behind fascia boards, under decking, or behind shelves. You can also conceal tubing in expansion joints, tunnel it under paved surfaces, or channel it through rain gutters and downspouts to get it inconspicuously where you want it. "Our guests can hear the system come on," relates one owner, "and then it becomes a game to see who can track down all the lines."

Besides convenience and time savings, drip systems are a simple way to boost humidity for container-grown, moisture-loving plants. Mist attachments can either supplement or substitute for soil-watering drip emitters on the same line. To get extra fogging action in dry weather, some gardeners set up an independently operated mist line.

For an introduction to drip irrigation, see page 117 of the May 1981 *Sunset*. To receive a free reprint of the article, send a stamped, self-addressed, legal-size envelope to Drip Reprint, *Sunset Magazine*, Menlo Park, Calif. 94025. □

Grouped plants *can share one ¼-inch line: emitters tee off it—an easy way to add new outlets*

On four separate decks, drip is an automatic plant sitter

Main water line travels along rafters over their heads, branches to deck above, and continues around side of house from decks behind. Because their house occupies a steep hillside, Olivia and John Tanner's garden in Dana Point, California, is all in containers—on four decks. Automated drip system is their plant sitter; even after long trips away, the owners come home to pots in full bloom. Design: James Marineau

Behind *this pot, feeder tube disappears through hole in the deck pictured at upper left to main line beneath it*

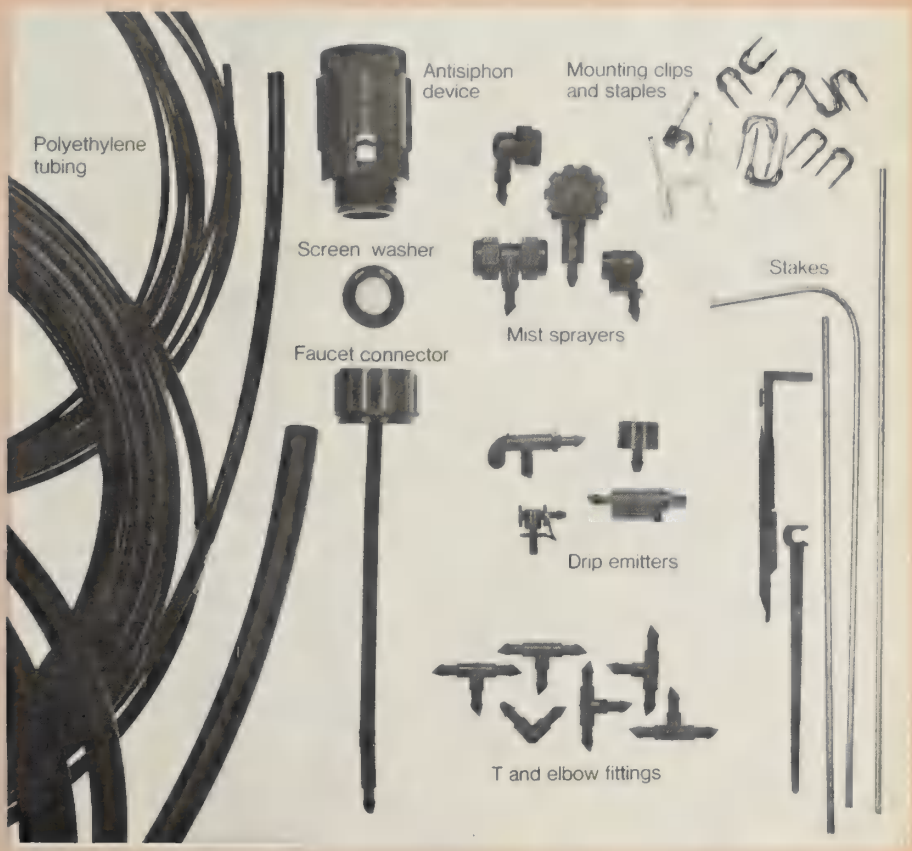
Your basic do-it-yourself system looks like this

It's not difficult to assemble your own watering system from the variety of drip components now sold at many garden centers and hardware, building, and irrigation stores in the West. In addition, several manufacturers package drip irrigation equipment in kits designed specifically for homeowners.

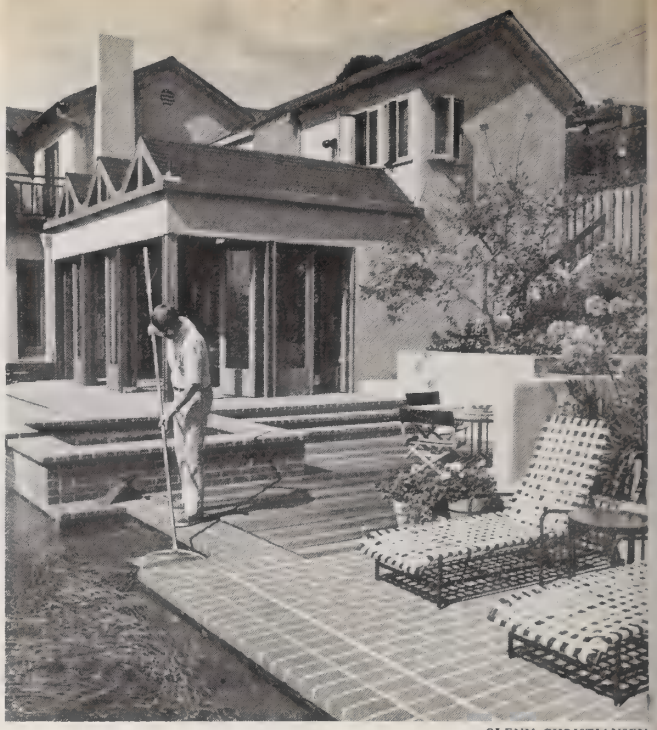
Priced between $10 and $30, these basic kits provide enough material to water 5 to about 25 containers. Some start you with all the components: tubing, fittings, misters, and emitters; clips to attach tubing to stucco or wood; and stakes to position emitters in pots. Other kits are much simpler. The photograph at right shows typical pieces from several manufacturers.

You attach the system to the faucet like a garden hose. A small screen washer provides minimal filtration. There's no pressure regulator: certain models work at standard household water pressures, others use flow-control washers like the kind inserted in shower heads to save water. A permanent installation requires an antisiphon device (vacuum breaker or backflow preventer, about $5); it's not included in most kits.

The most useful displays offer all the hardware you need to expand a system. Look for clear, well-illustrated instructions that specify the parts to add for a bigger or more permanent installation.



Two walls *turn to air when French doors are opened. Owners can clean room with a hose (brick floor has two drains)*

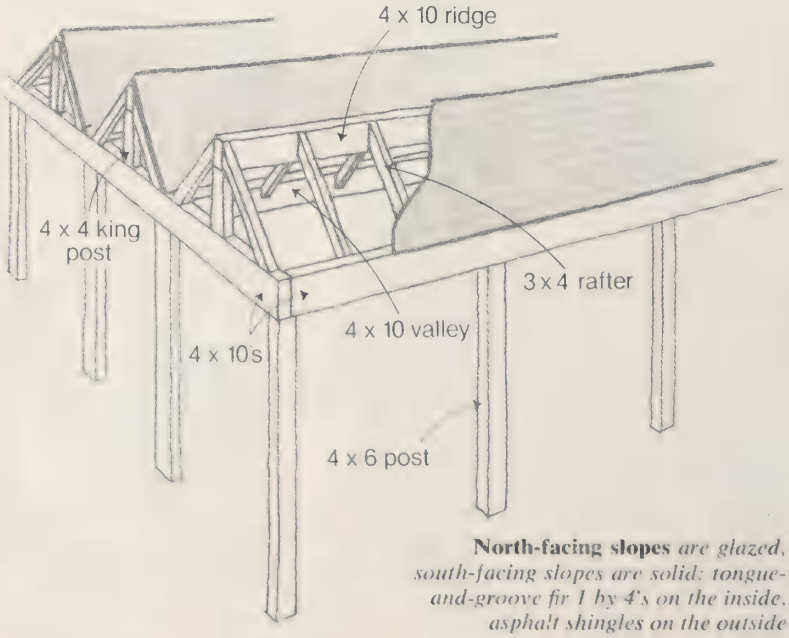


GLENN CHRISTIANSEN

Brick paving *of west- and south-facing room soaks up sun's warmth. It continues outside, around wood deck, to pool edge*

They added an indoor-outdoor pavilion

French doors that open wide, brick floor that runs right up to the pool, three-peaked roof that lets in plenty of light



North-facing slopes *are glazed, south-facing slopes are solid: tongue-and-groove fir 1 by 4's on the inside, asphalt shingles on the outside*

A saw-toothed roof crowns this bright post-and-beam pavilion. Added within the protective L of two existing exterior walls, it acts as a transition between indoor and outdoor living areas.

Designed by landscape architect Woodward Dike for his house in Laguna Beach, California, the room is technically an outdoor space—it closes from the rest of the house with weatherstripped, exterior-grade doors—so the amount of glass area that could be incorporated wasn't limited.

Three roof ridges run east to west. North-facing slopes are ¼-inch tempered glass. To cut costs, Dike used standard 7½-foot replacement panels for sliding glass doors, affixing these to the rafters with silicone caulk. □

Light floods *into sun room through gl faces of three-peaked roof. Triangu windows at ends of peaks vent he t. Up t steps, new double doors open to living roo*

Lines disappear into daybreak mist, *rod tips are poised for strikes as guide gently steers dory on California's Klamath River*

Summer steelhead are running again

Forget the tall tales of winter. Your chances, like the weather, may even be better now. Here's where and how to get started

Among fishermen, steelhead talk is almost always of winter. Tales of monster fish battled in raging rivers during freezing weather are the basis of campfire legend and lore alike.

And yet steelheading has a second season—a gentler summer season—that shares little of winter's gung-ho fame. The quarry is the same, a seagoing rainbow trout that anglers call steelhead. But the conditions are sharply different.

This is fair-weather steelheading. Lightweight spinning or fly-fishing tackle is the rule, whether you fish from a boat with a guide or work a riverbank on your own. Rivers are low, water generally runs clear, and in many cases you have the satisfaction of seeing the fish, even if you don't catch it.

When a strike does come it's always a jarring surprise: the rod tip jerks to life, line hums off the reel, and you pray the leader won't snap. The first moments are critical. Steelhead battle with authority—a leaping, dodging fury that often ends with your line suddenly drifting slack and empty.

For veteran steelheaders, this is reward enough, even though a fish may strike just once in a thousand casts. And only recently have the odds been that good. A decade ago, summer steelhead runs were diminishing rapidly, and on some streams, disappearing entirely.

Now, thanks to a quiet revolution in fishery management, summer steelhead are making a comeback. On many of the streams listed on our map (see page 103), fishing can be more productive in summer than in winter. Recent creel censuses by the Washington State Department of Game indicate that on most of these

GLENN CHRISTIANSEN

Taking her fly *in a Clackamas River riffle, this average-size summer steelhead has been in fresh water awhile; note spotted back*

Summer's reward *for lucky steelheader is a streamside barbecue. Double-layer heavy-duty foil "boat" holds ¼ inch of dry white wine, cleaned fish. Tuck lemon and onion slices in cavity, baste with melted butter, cover loosely with foil, cook over low coals until back flakes with fork. Add wine as needed to keep moist; baste often*

streams summer steelheaders are two to three times more likely to catch a fish on a typical day than winter fishermen are.

How do steelhead differ?

Differences between summer- and winter-run steelhead aren't merely seasonal; genetic and behavioral traits also set them apart.

All steelhead spawn in the clean, cold waters of smaller tributaries in early spring. Newly hatched "parr" spend the next year or two in the stream before swimming downriver to salt water.

After two years of seafaring life, steelhead are usually ready to begin the long swim back to their birthplace. They are big fish—3 to 10 pounds on average—when they reenter fresh water, with bluish-gray backs (hence "steelhead"),

GLENN CHRISTIANSEN

Rod-bending steelhead *fights in a boulder-lined summer run drift. Angler casts across stream and works fly (or lure, bait) in front of and through riffle*

silvery sides, and bone-white bellies. Beyond this, summer and winter fish behave quite differently.

Winter-run fish start arriving in early fall, with the biggest runs in the dead of winter. They tend to enter a river en masse, traveling quickly to the spawning grounds. They do not feed; color changes are slight.

Summer-run steelhead start upstream from early spring into summer, spending 6 to 10 months in the river before spawning. Entering in small groups, they move slowly upstream and scatter along the river, making them available to anglers over a larger area for a longer time. Meanwhile, their appearance and behavior may revert to that of resident rainbow trout, and like them they will sometimes feed on insects, sculpin, or salmon eggs.

Finding fish: predicting their moves

Steelhead are often in a biting mood just before, during, and right after traveling spurts between holding pools. This activity isn't always predictable, but certain conditions seem to trigger it. Rainstorms or a drop in stream temperature often cause movement (especially in late summer, when fish are congregated—holding—in deep pools). Steelhead also appear more active as light conditions change in early morning and evening.

Because even a good river may contain fewer than 50 fish per mile (all in one area), knowing where to look—as well as when—is essential. Steelhead water comes in three classic types.

Transit water is shallow, fast water through which steelhead move quickly. If it is heavily riffled or has lots of boulders, fish may hold there for a few hours or days. When hot weather drives water temperatures above 60°, diminishing the oxygen supply elsewhere, these well-aerated places become a haven for fish, though not in the large concentrations you'll find in pools or drifts (see below). The trick is to fish the whole area, using spoons, spinners, heavy wet flies and nymphs, or surface flies skimmed through the fastest water.

Holding pools are deep runs or pools, often just downstream of spawning areas or a hatchery, that hold the most fish and attract the most fishermen. Once they move into these areas, steelhead quickly lose interest in bait or lures in a day or two. Best time to fish these pools is early morning or late afternoon and evening. In these waters, fish seem to strike out of irritation; you just keep casting to the same fish. Bait and drift lures tend to work best, but flies may take fish in the shallow tail of the pool at dusk or in the riffle at the head of the pool in morning.

Drifts. These are the most productive segments of a stream. A good drift or holding run has medium current or a combination of fast and slow currents and 3 to 6 feet of water over cobble-size rocks and a scattering of boulders. The

Where and when steelhead run

The rivers shown on the map and listed below offer some of the finest summer steelheading in the West. We note the months when the largest concentration of summer fish normally run and the stretches of river that are usually accessible and productive. Local tackle shops can direct you to current hot spots and outfit you with tackle best suited to local water conditions.

Be sure to check steelhead regulations for each section of stream you fish: they are often complicated, sometimes confusing, but always enforced.

Washington

PUGET SOUND RIVERS

1. North Fork Stillaguamish: Not a big producer, but a favorite of fly fishermen (flies only) due to good access, clear water, pleasant scenery. July and August are peak months; small, dark steelhead flies work best. Most fish are taken between Oso and the White Horse Bridge.

2. Skykomish: A new hatchery program has made this large, swift mountain stream a top summer producer. June is best between Index and Sultan (especially just downstream of the Reiter Rearing Ponds); U.S. Highway 2, which runs parallel, gives good access for bank anglers. Below Gold Bar, the river is popular with guides using drift gear or plugs.

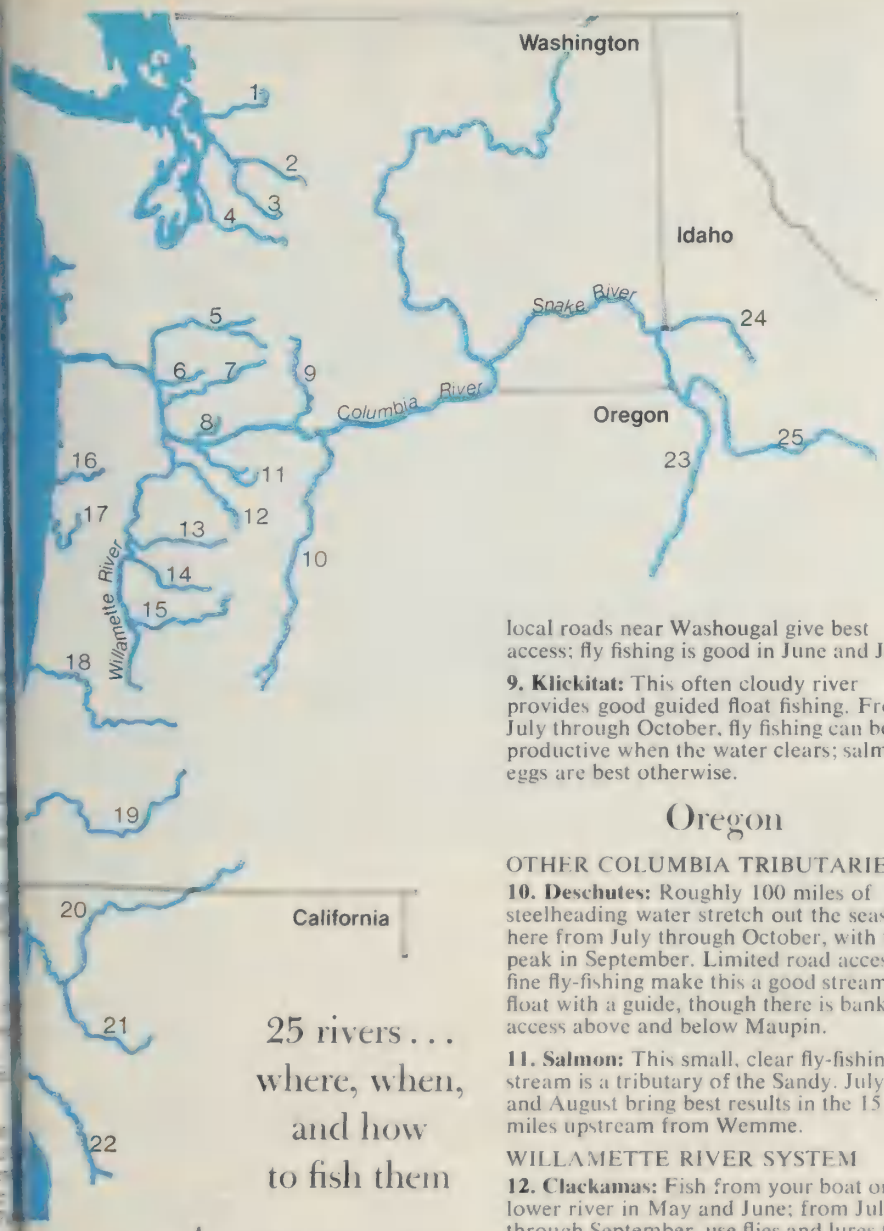
3. Snoqualmie: A popular guide-boat river with nine public bank access sites between Snoqualmie Falls and Duvall. June is strong; bait and drift lures work best in slightly murky water.

4. Green: Limited access, steep canyon walls, and swift, bouldery water make this an adventurer's river. June and September are the best months; in the clear water from Flaming Geyser State Park to Palm small baits and lures work well.

LOWER COLUMBIA TRIBUTARIES

5. Cowlitz: This big, slightly muddy glacial stream is best known as a drift- or jet-boat river. July is peak, but fishing is productive from spring through fall. The 15-mile stretch above Vader is good for boaters using salmon eggs, sand shrimp, and plugs. Bank fishing is crowded but productive below two hatcheries near Salkum.

6. Kalama: Washington's top summer stream, its steelhead runs have been bolstered by strays from the Toutle River



25 rivers . . . where, when, and how to fish them

(devastated by Mount St. Helen's eruptions). Bank access from the Kalama River Road is above the Modrow Road Bridge to the Kalama Falls Hatchery. Peak months are June and July; all types of tackle work. Boats drift below the bridge.

7. Lewis: The East Fork is a top fly stream, but with difficult access: easiest stretch to reach extends 2 miles below and a mile above Daybreak Park near La Center; June and July are peak months. The North Fork is fished by boat above Woodland.

8. Washougal: This small, clear river is noted for large fish; State Highway 140 and local roads near Washougal give best access; fly fishing is good in June and July.

9. Klickitat: This often cloudy river provides good guided float fishing. From July through October, fly fishing can be productive when the water clears; salmon eggs are best otherwise.

Oregon

OTHER COLUMBIA TRIBUTARIES

10. Deschutes: Roughly 100 miles of steelheading water stretch out the season here from July through October, with the peak in September. Limited road access and fine fly-fishing make this a good stream to float with a guide, though there is bank access above and below Maupin.

11. Salmon: This small, clear fly-fishing stream is a tributary of the Sandy. July and August bring best results in the 15 miles upstream from Wemme.

WILLAMETTE RIVER SYSTEM

12. Clackamas: Fish from your boat on the lower river in May and June; from July through September, use flies and lures to fish from the bank above Estacada. This clear stream is a favorite of Portland anglers.

13. North Santiam: From Big Cliff Dam down to Stayton, State 22 gives bank access. Lures and flies are productive July through September.

14. South Santiam: Boat fishing is best bet; bank anglers have limited access from U.S. 20 from below Lebanon to Foster Dam. Flies and lures produce well July through September.

15. McKenzie: There's some bank access from State 126; boat fishing is best. Lures and flies work well July through September.

COASTAL RIVERS

16. Nestucca: Hatchery program has enhanced fishing. Stretch below Beaver is popular with boaters in June; above, bank fishing is good July into September.

17. Siletz: Bank access from a logging road for about 30 miles above Siletz; July through September is productive.

18. North Fork Umpqua: Oregon's second biggest producer. Guides generally float from Idleyld Park to Winchester Dam. There's bank access above Idleyld Park; fly-only regulations upstream for 31 miles; popular fly fishing area is near Steamboat; peak is August and September.

19. Rogue: Oregon's top summer steelhead river. Famous for guided float trips through Rogue River Canyon, the river also offers fine bank fishing downstream from Illahe, upstream from Galice. Runs start in late August at the mouth, peak September and October in the upper river.

California

20. Klamath: Northwest California's mightiest river is best known for its "half-pounder" run August through October. These immature winter steelhead run up to 2 pounds and do not spawn. Fishing bait or plugs from a boat is best near the river mouth in August. In September, fish migrate above Weitchpec; from here State 96 offers bank access for nearly 150 miles to I-5. Lures and bait are productive; try flies in riffles. Guides float the river below Iron Gate Reservoir.

21. Trinity: This Klamath tributary has bank access from state highways 96 and 299, which edge much of the river. Better hatchery returns are improving early autumn fishing with flies and lures.

22. Middle Fork Eel: With its rebounding population of native steelhead, the river was fished this March through May on an experimental catch-and-release basis; the program may be repeated next year. For information, write to California Trout, Box 2046, San Francisco 94126.

Idaho

23. Snake: Improved steelheading is a bonus to guided floating through Hells Canyon above the confluence with the Salmon River; also drift below the confluence to Lewiston mid-September through October.

24. Clearwater: Last year, catch-and-release anglers above Orofino saw some good fly fishing in September and October.

25. Salmon: Idaho's big river success story (6,000 steelies caught in 1980), the Salmon below the Middle Fork offers action on guided drift and jet boat trips, September and October. There's bank fishing off U.S. 95 from just above Riggins to White Bird.

surface is often riffled, further concealing fish. Most techniques and tackle work equally well.

Get started with the right gear

Using the map and river descriptions above, you can select peak fishing times and general locations for rivers you want to try. Then, make your first stop a local tackle shop that specializes in steelhead. The owner can supply the proper lightweight tackle and can show you how to rig it. Many shops sell guidebooks or maps to local waters, and most usually know where fish are being caught. They can also refer you to river guides.

Although sturdier trout-fishing gear can work, steelheading has its own specialized equipment. First, round out your wardrobe with a pair of chest-high, stocking-foot waders and felt-soled shoes. A fishing vest is also handy. Sunglasses with polarized lenses to cut water glare and help spot fish are a must.

For fishing drifts with bait or lures, the best all-around outfit is an 8½- or 9-foot rod with a bait-casting (free-spool) or

spinning reel *filled* with 8- or 10-pound-test monofilament line. Don't skimp on the reel—a rough or uneven drag will snap your line on the initial run of a big fish. If you have a good 7- to 8-foot spinning rod, try it; it may work just fine.

A typical fly-fishing outfit starts with an 8½- to 9½-foot high-performance rod for a #6, #7, or #8 line on a reel with rim-control drag. Interchangeable reel spools that can hold a hundred yards of backing allow quick changes among the three most commonly used fly lines: double-taper floating, ultra-fast-sinking "shooting head," and weight-forward floating with a 10-foot sinking tip.

Presenting your offering

Try to spot fish, then cast to them. In clear streams, you can usually see their gray backs or tail movement if you're wearing polarized sunglasses.

Steelhead will rarely move more than a few inches to strike, so almost every fishing method relies on presenting the lure, bait, or fly so it drifts naturally with the current *near the bottom*. To cover a run effectively, work downstream 10 feet at a time. Start with short casts and fan out across the stream, angling your throws up and across the current (let the sinker bounce along the bottom).

Unlike winter steelhead, summer fish are actively feeding (caddis fly larvae are favored), and strikes are sharp. Keep your rod tip up, line tight.

With spin-casting lures of ¼ to ¾ ounce, use the heavier ones in fast water. The current will give the lure plenty of action, so retrieve it just fast enough to keep it from getting hung up.

Fly fishermen often use shooting-head or sinking-tip line to fish drifts 4 to 6 feet deep with a medium current. A short leader keeps the fly near the bottom. One new technique employs a floating line with split shot clamped halfway down a 6- to 8-foot leader to keep the fly near bottom; it's harder to cast but does catch fish. In clear water, larger olive, brown, and black flies are usually more effective than brightly colored ones.

GLENN CHRISTIANSEN

Polarized glasses *help spot fish; vest pockets store extra fly lines, leaders, flies*

Whatever technique you choose, lost tackle will be part of the game. Many tackle shops carry inexpensive lures and flies made especially for losing in steelhead streams.

Guided steelheading

Probably the best way for novice steelheaders to get a feeling for the sport, learn some steelheading lore, and usually catch fish is to go fishing with a guide. Some guides will fish from the bank, but most use either oared drift boats (primarily dories), outboards, or jetboats.

Guided single-day float trips cost anywhere from $125 to $200 for two anglers. Most guides supply tackle and lures (bring your own rod, if you like, and a bag lunch). Overnight trips can often be arranged.

For a list of guides and complete regulations in Washington, write to the Washington State Game Department, 600 N. Capital Way, Olympia 98504.

In Oregon, the Department of Fish and Wildlife, Box 3505, Portland 97208, has guide lists and regulations.

In Idaho, the Department of Fish and Game, Box 25, Boise 83707, has lists of guides; steelhead regulations are available after September 1.

In California, the Department of Fish and Game, 1416 Ninth St., Sacramento, 95814, has regulations. For a list of Klamath River guides, write to the Shasta-Cascade Wonderland Association, Box 1988, Redding 96099. □

Why the steelhead comeback? It wasn't easy

The dramatic comeback of summer-run steelhead on some rivers in the Northwest and northern California is the payoff for years of effort with increased hatchery stocking, better management of native steelhead, and new equipment to help ocean-bound juvenile fish around dams.

In most states the stocking of hatchery-raised steelhead in streams to supplement dwindling resident populations has been the most successful—and most controversial—management program. It has improved fishing dramatically in many rivers. For instance, in Oregon's Willamette River system, which had no summer-run steelhead before 1968, stocking has created a summer fishery with a catch of up to 10,000 fish.

Elsewhere, where hatchery fish supplement native runs, some biologists fear that crossbreeding may wipe out native populations by changing their genetic makeup. Oregon is addressing this problem statewide by trapping native steelhead, raising their offspring in a hatchery, and releasing them back in their ancestral stream. An additional program on the Deschutes allows anglers to keep only hatchery fish.

Washington is also concerned. On the Skykomish River, biologists rearing native offspring in riverside ponds have already increased the summer fishery fourfold.

Another problem, especially on tributaries of the upper Columbia and Snake, has been construction of eight dams (four built since 1968). In the mid-1970s, Idaho's once-great summer runs were almost eradicated.

Until recently, all but a small percentage of fish migrating downstream were killed as they went through dam turbines. Experimental giant revolving screens are now helping route steelhead—and salmon—away from turbines. If these devices are installed at all dams, the survival rate could double or triple. Meanwhile, a stopgap program of barging and trucking fish around dams is increasing the survival rates.

In California, degradation of stream spawning habitat (a problem throughout the West) has historically been most severe; careless logging practices, mining, and road construction have caused their share. One bright spot is on the Middle Fork of the Eel River, where stream rehabilitation and careful management without hatchery planting are slowly bringing back native summer-run populations. A test program to allow "no-kill" catch-and-release fishing from March through May is being evaluated; if results are positive, the program may be repeated next year.

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ONLY FROM THE MIND OF MINOLTA

Children and art . . . keeping the artistic spirit alive

DARROW M. WATT

Box lids *covered with adhesive paper become frames for changing display. Girls choose what goes on the wall*

All the fantasies and fears, the whimsy and the wonder of a youngster's world can find expression in his or her art. A four-year-old's paintings, free of inhibitions, about content or technique, can be richly personal—and often the envy of accomplished artists. As children grow older, though, many become dissatisfied by work they deem inadequate. By the time they are teens, many abandon the artist inside, becoming watchers rather than doers.

What can parents do to help keep a child's artistic creativity alive? We can make room for art in our children's lives: make space in the home for doing and displaying, make time in the week for observing and discussing. When parents value the process as well as the product, chances are that their children will, too.

What space for art?

The type of work space that's most successful either cleans up quickly or is an acknowledged "kid zone" where disorder is acceptable. It's inviting, scaled to the child, and not too far from other family members. It can be any room, as long as the surfaces easily wipe clean or can be protected by newspaper, drop cloths, or rolls of plastic. There should be a basin or bucket of water nearby and rags, paper towels, and a wastepaper basket. Keep preparations simple; elaborate setup procedures may dampen the child's enthusiasm.

Assembling materials

Keep painting and drawing supplies together in a place your child can reach. You might choose a sturdy box or plastic dishpan as an "art box" and supply it with marking pens, pencils, crayons, watercolors, poster paints, brushes, pastels, and paper of various textures: sandpaper, slick paper, corrugated cardboard, blotter paper, foil, and cellophane.

Avoid shoddy materials, often packaged for children. Says one artist, "My daughters learned to enjoy quality by sneaking into my studio and using my things. At first I was annoyed; now I see how it's paid off in their art."

Buy something fresh for the art box when you want to give a little gift. When you're traveling, look for unusual materials or children's art from other countries.

Beyond basic painting supplies, consider an easel. It makes a painting easier to see and reach, and it can be moved from place to place. Disadvantages: the paint often drips, allowing less control, and the easel is somewhat bulky.

Children love the unexpected. We show ideas for big-paper projects on pages 92 and 93. You might also have them try painting on blotter paper using cotton swabs and food color, or on transparent mylar pinned to a see-through wire fence. Paint with ice cubes on the sidewalk or with pudding on a platter. Paint big cardboard boxes, transforming them into houses or space ships, or igloos. Paint sheets or T-shirts with fabric colors. Add texture to paint, using cornmeal, glitter, sawdust, sand, or buttermilk. Work small and large on black and gold paper, on circles and triangles. Draw quickly, draw carefully, draw to music, draw blindfolded.

Getting started

Your object is to enhance a child's perception of textures, shapes, construction. Watercolorist Daniel Mendelowitz has written in *Children Are Artists*, "If a child has indicated a desire to draw animals, get a cat and have him hold, feel, and describe it . . . 'touch his long whiskers, his wet nose, his strong hind legs.' Then suggest it might be fun to paint a picture of the cat."

Sensory awareness is one element of creativity; imagination is another. Handing children our dreams does them no service, and that is the risk of intruding. Resist the temptation to try to "improve" children's art. "Don't forget the toes," "Now use some red," "Watch out, you'll ruin it" are comments that inhibit a child. "Tell me about it" is a wiser approach than "What is it?"

An appreciative comment can mean much, but whether or not you like the finished product is almost irrelevant. Measure success by how the child feels.

Displaying a child's art

What's to be done with the plethora of artwork some children produce? Display whatever the child likes best. Save some of the rest for the future. The display can employ simple box lid frames or plastic frames arranged in a group or more elaborate frames with mats and glass. The advantage of glass and plastic is that the paintings stay clean and flat.

Hang your child's art where family and guests can enjoy it. Place some pictures at the child's eye level, and change them from time to time.

If a scrapbook's too small, you can buy artist's portfolios made of cardboard, fabric, or leather to keep through the years. Both you and your child will treasure this record.

A youngster's potential creativity is enormous, but opportunity for practice and encouragement from others are crucial. "Is it worth all this trouble?", some parents ask. Take it from nine-year-old Matt Mahoney, "The more you draw, the more you'll like to draw, because you really start believing in yourself." □

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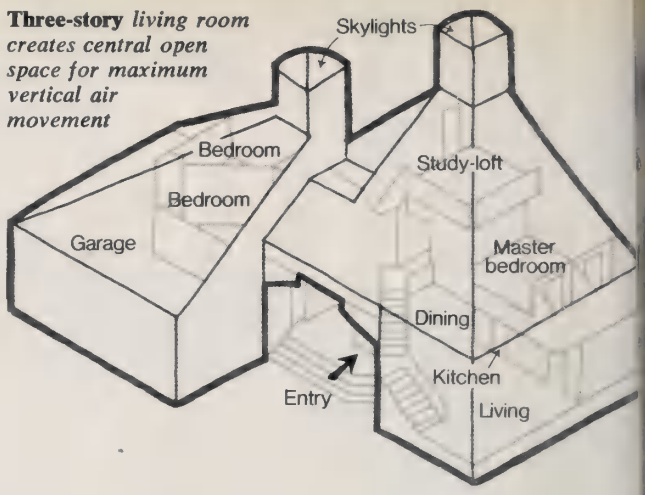
Skylight stacks *crown hip roofs of Beyer residence. Living room is at right, garage on left*

Three-story *living room creates central open space for maximum vertical air movement*



Keeping cool in Redding . . . the hop kiln idea

DAVID STUBBS

Hop kilns helped inspire the passive solar features of this 1,500-square-foot house in Redding, California. "The design is based on the convection principle of air movement that kilns use to dry hops," says owner-architect Ronald Beyer. "During Redding's hot summers, when temperatures average 95°, cooling breezes are precious. We create an interior draft by opening ground-floor windows—usually on the north side—and the stack skylights. The warmer air rises up the 'solar chimney,' while cooler air is drawn in below."

To make this principle work, Beyer designed the house around an open interior. The house is divided into two hip-roofed sections: the taller contains entertainment areas and the master bedroom, the shorter contains two children's bedrooms over a garage. The living room rises the full 37-foot height of the house.

Under flat ceilings adjacent to the living

Sweep of space *rises from living room floor past bedroom railing to loft. Conventional ceilings cover dining area and kitchen*

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DAVID STUBB

Steel ladder *leads to study-loft above master bedroom. Vertiginous view (below) to living room shows extent of open space*

room are the dining room and kitchen. The master bedroom is on the second level, overlooking the living room. From this level, a steep stair leads to a small study-loft directly under the skylight (top picture).

The Beyer house, which uses 6 inches of insulation in the roof, stays about 10° cooler than outdoors in summer. On excessively hot days, the draft alone helps cool the house.

What about the structure's performance in winter? "Then we only have to close the windows and the skylight and heat the ground floor," reports Beyer. "The heated air rises, automatically warming the upper part of the house. This past winter our monthly heating bill (for a gas furnace) never exceeded $25." □

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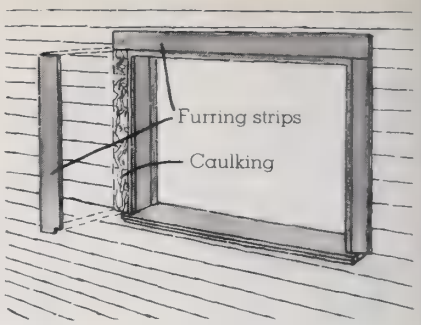
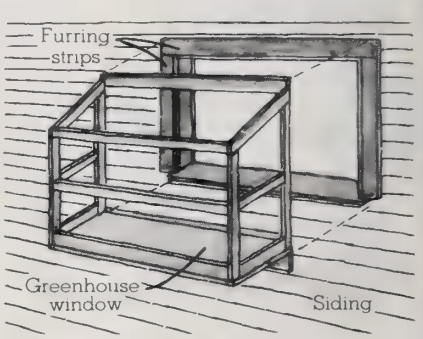
STEVE W. MARLEY

Polycarbonate glazing *is bent to form upper windows and skylights. Lower windows open to admit breezes. Architect: Peter C. Rodi/Designbank*





Quick fix: *purchased greenhouse bay pictured below makes cheerful plant space. Caulk-backed furring strips (upper drawing) provide flat mounting surface over exterior siding. Greenhouse then attaches with long wood screws. Project design: Curt Williams*

Brightening the kitchen with skylights and windows

TOM WYATT

JACK MCDOWELL

Skylight *adds light, extends view over rooftops of neighboring houses. Lower windows open for ventilation; screens keep insects out. Architect: Fred Briggs*

New book *shows 72 window and skylight achievements in color with how-to details*

It doesn't take extensive remodeling to brighten most kitchens.

A bold new window behind the sink (possibly extending into a skylight above) can add light, warmth, pleasing views—and, if it's openable, invite cooling breezes.

Brightening kitchens is just one of the glazing uses shown in a new *Sunset* book, *Windows & Skylights* (Lane Publishing Co., Menlo Park, Calif. 94025, 1982; $4.95). The three projects on this page demonstrate how this book brings several different approaches to the situation discussed: here you see a design idea (windows that merge into skylights), a new glazing material (bendable, virtually unbreakable polycarbonate), and a quick do-it-yourself project (an off-the-shelf greenhouse bay that fits into a standard window openings).

The 72 color photographs show you how to bring in and control the sun for light and heat, maximize views, make exciting use of stained glass, and plan unusual glazing shapes as design elements.

Separate text sections give detailed instructions for installing both windows and skylights. There are also special features on making models to test your glazing ideas, contemporary uses for glass blocks, designing skylight shafts for night lighting, and glass doors. □

The summer of 82°

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DAVID STUBBS

Tightly organized *small kitchen makes efficient use of space behind stove to hold spices and knives*

Knives and spices within reach at counter back

An extra-deep counter in this remodeled 96-square-foot kitchen gave San Francisco architect Toby Levy room to add a knife and spice rack across the back.

To accommodate a built-in restaurant-size cooktop, the marble counter is 28 inches deep, 3 inches greater than usual. The maple rack, which is 3 inches high and 3 inches deep with a ½-inch-deep lip, extends 8 feet. Spice bottles take up 5 feet behind the stove. (With normal turnover, today's spices stay fresh when exposed to some heat and light.)

Knives slip into ¼-inch slots between pieces of 2-by-2 wood. The blades extend below the countertop. □

Single row of spice bottles *stays within easy reach of stove while knives are near the work counter*

Evenly spaced *slots hold knives upright, handles at the ready*

This bag of ALAMO BRAND has as much meat protein as 10 lbs. of sirloin. Woof!

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Long after your friends have traded in the cars they settled for, you'll still be re-discovering the joys of owning a GTV 6. Because there's a lot to love about the GTV 6. When Road & Track tested it against the Datsun 280ZX Turbo and Porsche 924 Turbo, the GTV 6 won handily. Later, they called it, "the best Sports GT for the '80's."

The engine "is a joy, revving and pulling smoothly through its range ...", a muscular 2.5 litre V6 with Bosch L-Jetronic fuel injection for punch. Also, as you would expect from a car in the classical GT mold, the GTV 6 has over-sized 4-wheel disc brakes for when more power isn't the answer. The suspension is independent up front and the rare deDion design in the rear. Taken as a total, the GTV 6 system is unique, and provides handling qualities well-known for impressing drivers the first time out.

Which leaves its looks. There are no two ways about it, the GTV 6 is a stopper, no pun intended. The interior is the renowned Alfa Romeo blend of sensibility and sensuality.

Road & Track summed up the GTV 6 thusly, "No twist, no wiggle, no rattles, no bad habits. Real quality."

But a car of this quality cannot be stamped out like others that have compromised themselves into a less than GT class. If you become one of the few thousand drivers who get to own one, every road will remind you that the GTV 6 is genuine automotive art.

Particularly when you pass all the other cars that aren't.

The Spider Veloce

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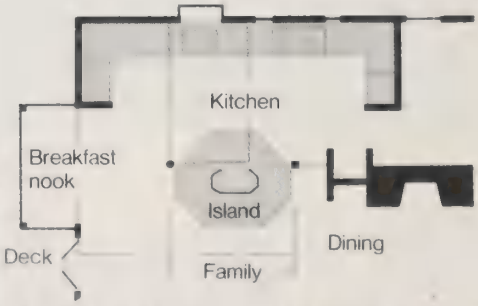
NORMAN A. PLATE

Where a wall once enclosed *the kitchen, there's now an 8-foot multipurpose island. It fits between two ceiling-supporting pipe columns*

After the kitchen walls came down, where's the storage? In the big octa-island

Before: *corridor kitchen was cramped, divided by several walls*



Dotted lines *(above) show where walls were. An extra-large, two-level island (left) now provides work and storage space. It includes a snack bar counter, a small sink, small appliance storage in the central pop-up, wraparound storage underneath*

Knocking down walls can create a sense of openness, but it also cuts down on usable wall space. In this opened-up San Francisco kitchen, a giant octagonal island positioned where a wall once was gives back some of that work-counter and storage-cupboard capacity. It also gives a place to sit and eat, or to stand and chat with the cook.

The island is 8 feet long and 6 feet from cooking side (where there's a small sink) to seating side. In the center of the island, a smaller octagonal cupboard houses small appliances and slightly secludes the cooking area from the bar. At each end of the island, steel columns do

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NORMAN A. PLATE

Diagonal grooves *in beams slope glass ceiling for runoff*

Bright breakfast nook, *a 4- by 9-foot addition, is walled and roofed with tempered glass. Roof beams project inside, rest on 9-foot header beam*

the work of the old bearing wall.

Also planned with the remodel was a 4-foot-deep glass-walled addition, which creates a bright new breakfast area. Outside it, a new deck extends the house toward the back yard.

Ceiling beams in the breakfast addition —a series of 4 by 8's on 2-foot centers— continue through the back wall to form a pergola over part of the deck. Inside the breakfast nook, panels of tempered glass have been set into grooves cut diagonally into the beams: these make a transparent ceiling for that part of the kitchen. Silicone rubber caulk seals the glass in place.

Ideas here came from several sources. Architect Gene Clements was responsible for the overall floor plan changes and the addition, and the island and cabinets were done by interior designer Barbara Scavullo and cabinetmaker Robert Leeds. Homeowners Susan and Kent Barber also credit their contractor, Steve Plath, with working out many of the design details. □

New deck *outside kitchen has partial pergola made by continuing short beams across back of house*

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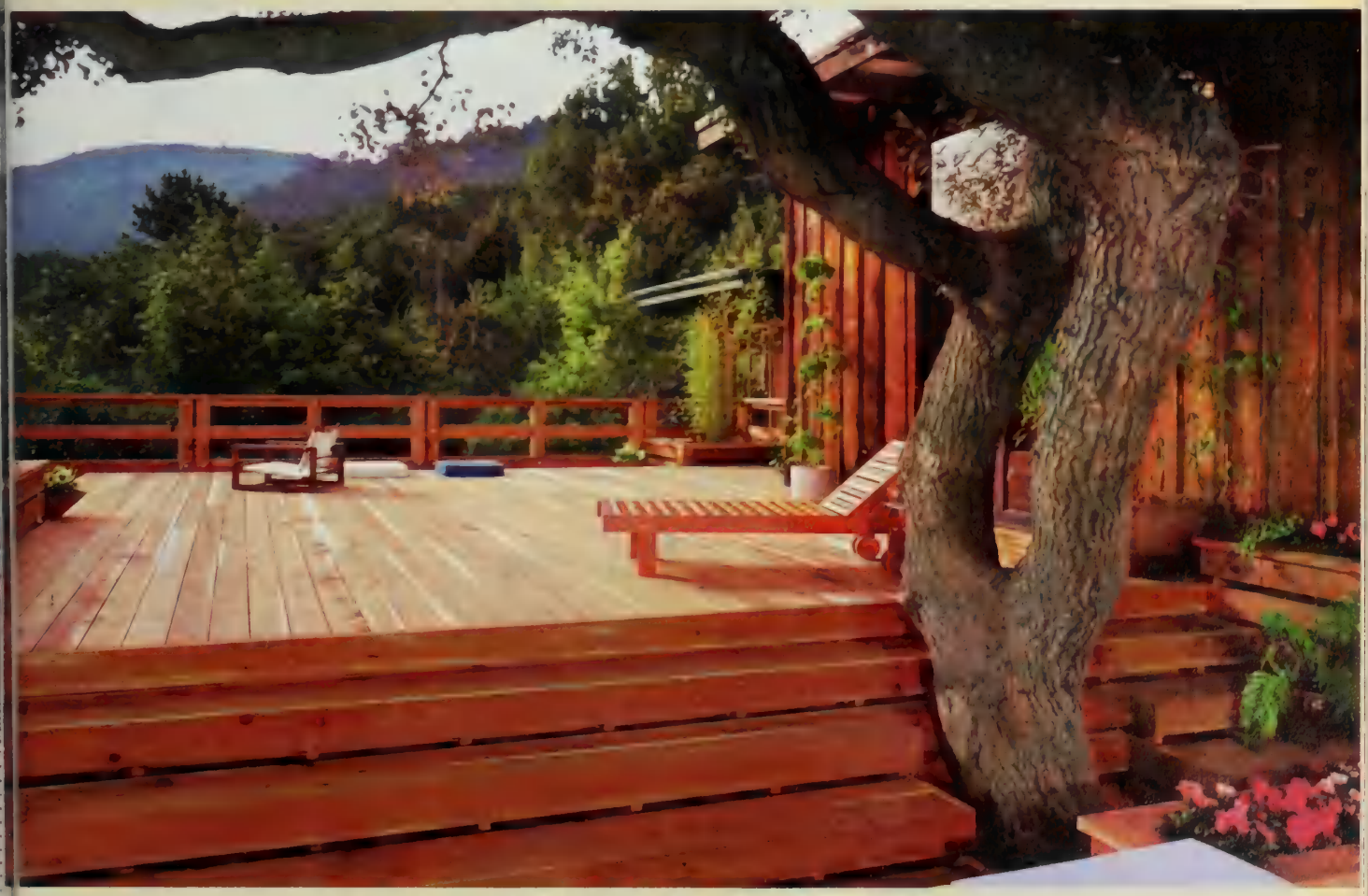

REDWOOD

LIVING WITH NATURE

DAVID STUBBS

The hardworking *grad night committee pauses for a group portrait surrounded by some of their party decorations: heraldic paper banners, reflective plastic Gothic windows, and a cardboard turret*

COMMUNITY ACTION:

After 6 months of hard work, it's time for grad night

An empty quadrangle *awaits transformation by the party's ambitious organizers, who hold master plan*

Drawbridge *leads new graduates across moat in castle courtyard*

GREGG MANCUSO

After the pomp and circumstance of a high school graduation, it's time to celebrate, but where? How can a party be fun and safe? In 1961, several students from the high school in Los Altos, California, were killed in a car crash after a graduation party, so the seniors' parents decided to find a way to minimize driving time. The next year they hosted an all-night party at the school—and have been doing so every year since.

Though similar parent-organized events take place from time to time in other communities—the idea is familiar to high schools in Seattle and Phoenix, for example—the Los Altos tradition seems one of the most elaborate. Theirs is no ordinary grad night: it culminates six months of hard work.

Last year the organizers chose a medieval

Shot on Kodak Ektachrome 400 film with a 180 mm lens at f/5.6 at 1/1000 sec

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theme in deference to the name of the school team, "The Knights." They then transformed a large quadrangle and an adjoining auditorium into Camelot. Outside, they covered all walls with brown paper and cardboard painted to resemble stone, hung homemade heraldic banners, built a walk-through tower surrounded by a moat, and constructed 15 game booths. With painted stage flats and cut paper, they turned the interior of the auditorium into a forest in the snow. Merlin would have been impressed.

"It's a real community effort," says Carol Stauffer, one of the organizers. "Parents start by measuring, cutting, fireproofing, and painting paper and cardboard to the master planner's specifications. The talents of electricians, carpenters, artists, seamstresses, and accountants are also drawn from the parent groups. Local businesses donate supplies, and the fire department checks us out for safety and this year even filled the moat."

The mechanics behind the magic

Before Christmas, the chairmen (always two couples) of the previous year's grad night select a steering committee. In January that steering committee elects new chairmen, who select a grad night committee. At the end of January, a general meeting is called, open to all parents of seniors. There they post sign-up sheets for work crews. In February, the grad night committee decides the theme for the party, and in March work begins.

The work crews, which need from 5 to 25 people each, include the following: admissions, in charge of printing tickets; booth building, in charge of games and operations; cleanup; correspondence, such as thank-you notes for donations; decorations, including interior and exterior painting; electrical; entertainment, which arranges for live music all night; finance; food, to cook and serve dinner and breakfast; host, which arranges for chaperons; door prizes; publicity; and telephone, in charge of getting messages to committee members. This year, about 150 parents worked on the party for a class of 200 students.

Financial support comes from tickets purchased by the senior class and from class fund-raising efforts held throughout the year. In addition, many local businesses donate goods and services, from shoe boxes for the "stone" parapets to clear plastic pop bottles covered with strips of black tape to look like metal "medieval" lanterns.

In order to keep the theme a secret, sets and decorations are constructed off the school grounds. Assemblage starts the day before the party and is completed in time to allow a 2-hour open-house for the community. Then all is ready. When the students arrive, their obvious delight makes it worth all the effort. □

THE BOSS IS BACK

Mustang GT

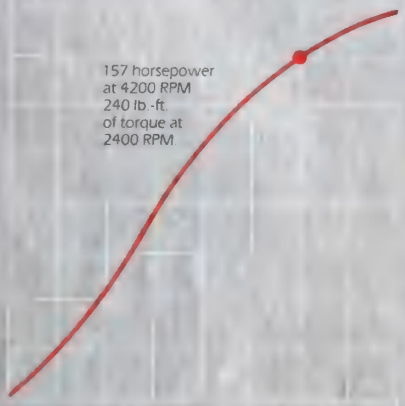
It's Mustang GT with a 5.0 liter High Output engine.

The word is on the street. The Boss is back. It's Mustang GT. Sharp, street smart and powerful. At its heart is Ford's new 5.0 liter High Output engine. It pumps out 157 horsepower.* Then Ford bolts on a 4-speed transmission and a Traction-Lok rear axle. Couple this with a special handling suspension and you have a car with the kind of snap that some people thought was gone forever.

Inside Mustang GT. Getting down to serious business.

Once you're strapped into Mustang GT's fully reclining low-back bucket seats you'll monitor full instrumentation: speedometer, tachometer, oil pressure and temperature gauges, and more. Then, go for full-dress style by choosing options like T-roof, leather-wrapped steering wheel, and more. Whether you buy or lease, see Mustang GT at your Ford Dealer now.

The word is on the street. The Boss is back.



*Net vehicle horsepower and torque as measured by SAE standard J245.

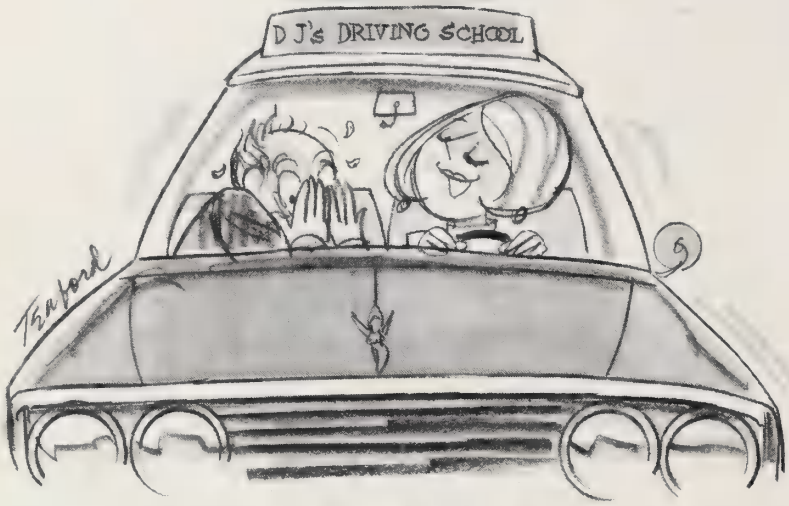
FORD MUSTANG

FORD DIVISION Ford

FORD MUSTANG GT

The Ford

"In the past 15 years, I've had 35 driving lessons, 35 driving instructors, but only one refrigerator. A Frigidaire."



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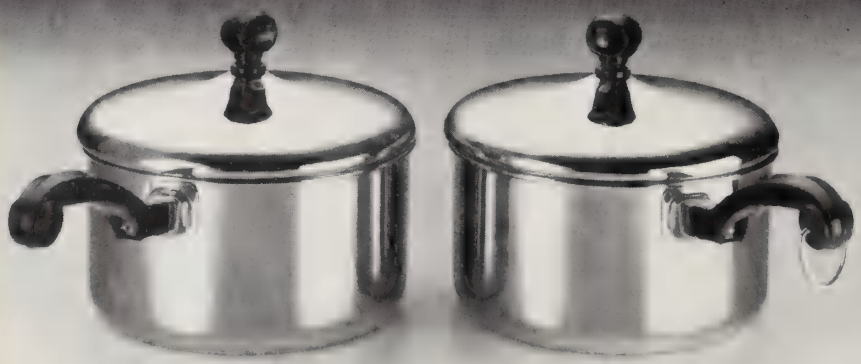

1949 1982

Quality is timeless.

Farberware's gleaming stainless steel cookware with aluminum clad bottoms is a perfect example. There wasn't anything like it in 1949. There isn't anything like it in 1982. And there probably won't be anything like it in 1999.

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DARROW M. WATT

Within pole's reach, *transom doors can unlatch to let cooling breezes through house*

Warm air escapes through transoms

Transoms are mounted above glass panels in north- and south-facing walls in this hilltop house in Riverside, California. With the transoms open, warm air rising to the ceiling is carried away by prevailing north-to-south afternoon breezes that waft through the house, keeping the average indoor temperature a comfortable 68° most days in summer.

Each of the eight 1- by 4-foot transoms is screened on the outside. Doors are 1-inch-thick plywood panels that latch closed. Because of their elevated position, size, and limited-opening hinges, there is very little security risk.

Design was by architect E. Warren Bruce, Riverside. Owners are Anne and Charles Tourtellotte. □

Heat rises *and is vented out as breeze flows through opposing transoms*

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BRAN NEWS Kellogg's®

CREATE YOUR OWN

Enter Kellogg's "Bran New Feeling" Recip

Just by creating a high-fiber recipe you could be the winner of WHIRLPOOL Home Appliances to make the kitchen of your dreams. These appliances include a cook top refrigerator, combination microwave/wall oven, trash compactor, and dishwasher. Plus, the winner will receive $5,000 in cash to create the kitchen "of your dreams." In addition, 300 second prizes of Oster* Kitchen Center* food preparation appliances will be given away. These prizes will be awarded for the best high-fiber recipes in three categories: **• main dish/side dish • dessert/snack • bread.**

*Oster and Kitchen Center are registered trademarks of Oster, Division of Sunbeam Corporation

Official Entry Rules.

To enter, the recipe must be typed or legibly printed on a separate 8½" x 11" sheet of paper. Each recipe must use at least 1½ cups of either Kellogg's® 40% Bran Flakes or Kellogg's® Cracklin' Bran® cereal, or 1 cup of Kellogg's® All-Bran® or Kellogg's® Bran Buds® cereal. All recipes must include complete preparation instructions, standard measurements, commonly available ingredients and should specify which of the above three categories entered. Included with the recipe must be a completed entry blank (adjacent) plus one proof-of-purchase seal from one of the four Kellogg's bran cereals. They should then be mailed to: **BRAN NEW FEELING Recipe Contest, P.O. Box 7772, Chicago, IL 60677.**

All entries must be received on or before November 30, 1982.

Each recipe must be original and the property of the person submitting it. Any recipe that has previously appeared in print will be disqualified unless judged distinctively different in ingredients or preparation.

Judging for the contest will be based on originality, appearance, appetite appeal, and ease of preparation, in each of the three categories. The final recipes will be kitchen-tested by a staff of home economists under the supervision of the judging organization. All decisions are final and only one prize will be awarded per winner.

Additional contest details described.

Anyone who is a resident of the United States, its territories, or Puerto Rico can enter Kellogg's "Bran New Feeling" recipe contest. However, employees and members of immediate families of Kellogg Company, its advertising agencies, its judging organization and professional bakers, chefs and cooks are not eligible.

You may enter as many times as you wish, but each entry must include the required proof-of-purchase seal and must be mailed separately. Each entrant can win only once, but if you become eligible for more than one prize, you will be awarded the highest value earned.

All entries become the property of Kellogg Company, which reserves the right to edit and adapt those submitted for publication. No entry will be returned. In case of ties, a duplicate prize will be awarded. Contest void where prohibited, restricted, or taxed. Winners will be notified by mail after January 31, 1983. Proof of eligibility may be

required. You may obtain a winner list after January 31, 1983, by sen ing a stamped, self-addressed envelope to: WINNERS' LIST, P.O. BOX CC, CHICAGO, IL 60677.

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BRAN NEWS Kellogg's®

Contest and add the goodness of fiber to your life.

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an cereals and a little creativity to
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lp you win a great new kitchen.

Come on. Let Kellogg's and
ur imagination discover new ways
get the goodness of food fiber into
ur life. ® Kellogg Company © 1982 Kellogg Company

OFFICIAL ENTRY FORM

I warrant that the recipe I submit is my original work, that I have the right to disclose it, and that I have not previously published this recipe. I also acknowledge that Kellogg Company has the right to edit and publish any recipe that has been submitted.

(SIGNATURE)

MAIL ALL ENTRIES TO:
KELLOGG'S "BRAN NEW FEELING" RECIPE CONTEST
P.O. BOX 7772, CHICAGO, IL 60677

Mail this entry blank with your recipe and one proof-of-purchase seal from either *Kellogg's® 40% Bran Flakes, Kellogg's® All-Bran,® Kellogg's® Bran Buds,®* or *Kellogg's® Cracklin' Bran®* cereal.

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STORE COUPON

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HONOLULU ACADEMY OF ARTS

Honolulu Academy of Arts, *designed by New York architect Bertram Goodhue, will showcase month-long Hawaiian architecture show*

HAWAII STATE ARCHIVES

Broad Victorian lanais *and steep thatch roofs influenced later Hawaiian houses*

Showcase of Hawaiian architecture in Honolulu

A thatch hut, a missionary home, a plantation worker's house—the influence of these early buildings on Hawaii's outstanding houses will be explored during "Five Decades of Hawaiian Architecture," a month-long exhibition to be held at the Honolulu Academy of Arts.

The show opens June 8 (during the three-day national convention of the American Institute of Architects in Honolulu) and runs through July 3. Its sponsors are the academy and the Hawaii Society/American Institute of Architects.

With photographs and slides, descriptive text, and a few artifacts, the exhibition will cover outstanding residences built since Hawaii's AIA chapter was founded in 1926. One section will include the 42 houses that have won awards in the Hawaii Society/AIA's annual design competition since it started in 1958.

The show attempts to demonstrate how Hawaii's climate and cultures have affected house design. Long sloping roofs with broad eaves, informal plans, good natural ventilation, lanais, and rooms with outdoor extensions are features of most. Successful houses built in tight spaces, on steep hillsides, or with Oriental and California design elements will also get attention, as will Hawaii's pioneer architects.

The academy, at 900 S. Beretania Street is open 10 to 4:30 Tuesday, Wednesday, Friday, and Saturday; 11 to 8 Thursday and 2 to 5 Sunday. Admission is free. Free evening lectures on Hawaiian architecture will be given on June 21, 22, and 29 at the 290-seat theater. For more details or to arrange special tours of the exhibition for groups of 10 or more, call (808) 538-3693. □

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DON NORMARK

Wheelchair ramp *connects driveway to deck at a gentle slope of 1 in 12*

Low walls enclosed by greenery *surround back deck that is also main house entry*

Wheelchair access to deck and garden

Surrounded by green ivy, red-leafed flowering plum, and flowering cherry trees, the deck you see above now serves as the main entrance to this Seattle house. The owner wanted a wheelchair-accessible entry, but as important to her as the physical access was that it be beautiful and blend with the exterior of her 1912 house.

To achieve the architectural blending, designer Michael Andersen sheathed 3-foot-high wood-frame walls in shingles painted to match the house.

Built at house level, 2½ feet above an old concrete patio, the deck connects the kitchen with the back of the driveway by a 17-foot ramp. Pressure-treated 2 by 6's over 2-by-8 joists spaced 16 inches on center frame the deck. The 3-foot-wide ramp is supported by three 4 by 6's run ning its length. These rest on the groun at the driveway end, on two sets of 4-by 4 posts, and on the deck framing.

A layer of 1⅛-inch marine plywood wa laid on the 4 by 6's and covered with nonslip surface (a mixture of fibergla resin, sand, and pigment). Along th ramp's inside walls are 2-by-4 hand rai ings 31 inches above floor level.

Because of the deck's proximity to th lot line, the building code required th the wall opposite the sliding doors be 1-hour fire wall, which added conside ably to construction costs.

Pots of waxleaf privet and boxwood, an ivy along the back wall, keep the dec green all year. Flowering plants in larg easy-reach pots change each season.

THE LEADING DRY CAT FOOD NOW TASTES BETTER THAN EVER.

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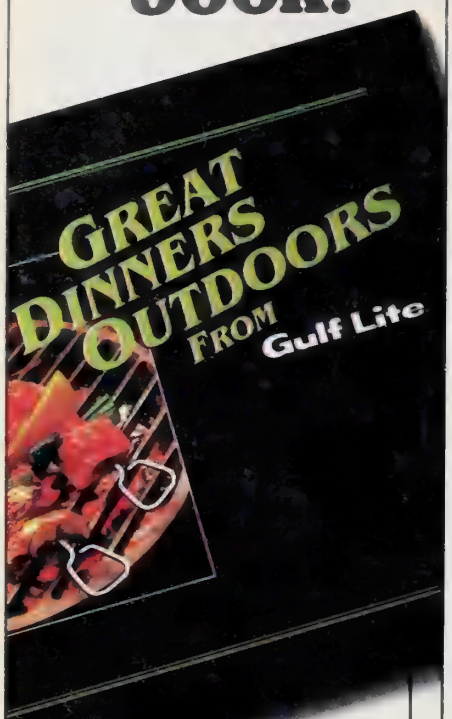
For your pets health... see your veterinarian regularly.

Next time you barbecue, go by the book.



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The "one-match" starter.

DAVID STUBBS

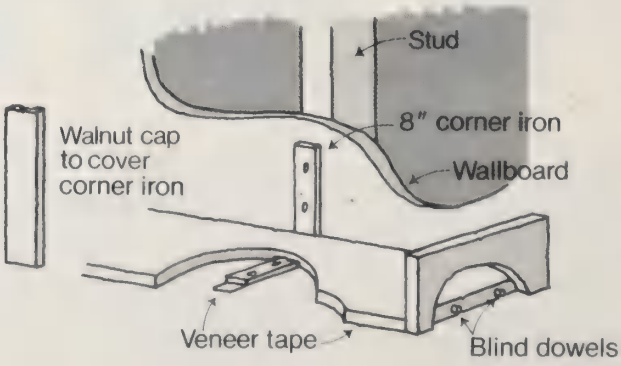
Walnut wall system *climbs 11 shelves high, tapers at top to match ceiling slope. TV enclosure, small desk are attached separately*

Eleven-shelf plywood wall system

Concealed corner irons and walnut veneer give this shelving system the look of finely crafted furniture.

Homeowner Tim Hays of Riverside, California, ripped ¾-inch walnut-faced plywood down to the needed 10-inch shelf width, then routed channels in the bottom of each shelf to accept the 8-inch corner irons. He set the channel depth so that the bottoms of the angles, whe faced with veneer tape, would be flus with the plywood. Veneer tape also cov ers the leading edges of the shelves.

The end stops on each shelf are soli walnut 1 by 4's, blind-doweled and glue to the plywood ends. Covering the corne irons are walnut 1 by 2's routed to s against the wall.



Corner iron *is wood-screwed through wallboard into stud. U-shaped walnut cover can be cut from 1 by 2 or smaller stock*

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No lost loading space because there are no cutouts in the lower rack. You can put deep pots in both racks. Design provides more capacity for truly random loading of dishes and glasses. Exclusive ChinaGuard protects dishes against chipping.

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Insures sanitized cleaning every time. Automatically heats water to approximately 150°F in every complete cycle.

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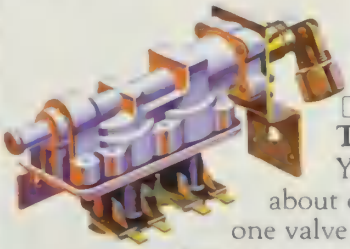
Assures sparkling clean dishes without pre-rinsing. Grinds soft foods during drain. Filtration and waste removal system has a self-cleaning filter that's easily removable without service.

☐ **Gentle Forced Air Drying.**
It's safe. With no hot spots on dishes, pots or pans. Unlike other dishwashers, there's no exposed heating element in the dishwasher with the KitchenAid Flo-Thru Drying System.

Long-Life Durability Features.

☐ **Porcelain and Steel Construction.**
To protect from scratches, stains, and odors, KitchenAid uses a full steel wash tank with two coats of tough, chip-resistant TriDura® porcelain plus an overglaze. Some dishwashers have a tank or inner door made of plastic.

☐ **Heavy Duty ½ Horsepower Motor.**
Most others use a ⅓ horsepower or less. Since a stronger motor strains less, it's a lot less likely to wear out.



☐ **Overflow Protection Twin Fill Valve.**
You don't have to worry about overflowing water. If one valve fails, the other continues to operate and normal dishwasher operation is maintained.

☐ **Reversible Front Panels.**
KitchenAid matches your decor. You can change panels with the stainless steel trim kit with four decorator colors provided plus choose from six optional solid and edged colors for unmatched flexibility.

☐ **Triple Protection Warranty.**
A 1-Year parts and labor Full Warranty on the complete dishwasher. A 5-Year Limited Warranty on the motor. And a 10-Year Limited Warranty on the porcelain tank and inner door.

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KitchenAid®. Don't settle for less.

Hobart Corporation, Troy, Ohio 45374

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NORMAN A. PLATE

Rectangular *grids extend from house and deck. Horizontal 1 by 4's mask deck substructure and create storage shed below*

One grid extends a deck, the other makes shade

These two wooden grids—one projecting from a deck, the other from an eave—are tied together visually but have different functions. To extend the horizontal plane, one surrounds three sides of a hillside deck, making the deck appear larger; eventually, it will support a wisteria that will help obscure the view to the road below. For shade control, a larger grid extends from the house, blocking late afternoon sun while keeping a view upward to the sky.

For the framework of the 13- by 40-foot upper trellis, architect Victor H. Lee of Menlo Park, California, used 2-by-12 joists spaced 4 feet apart. They connect to a double 2-by-12 header along the front. At 18-inch intervals, 1 by 8's set on edge act as sun-baffling louvers.

The deck surround, which echoes on a smaller scale the rectangular openings of the upper trellis, has a frame of 2 by 8's with 1 by 8's at 12-inch intervals.

Lee designed the deck and trellis for Maria and Richard Cassidy of Palo Alto, California. □

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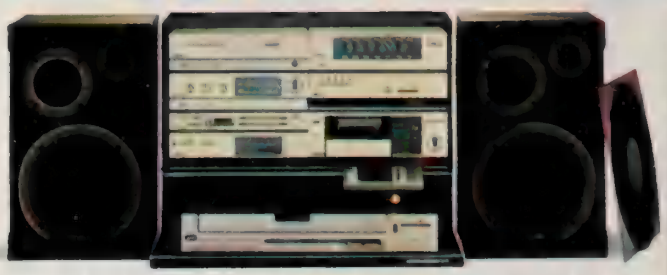

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Pella. The significant difference in windows.

Multipurpose island *works for meal preparation and serving. Wheeled cart pulls out from underneath to transport meal to dining room*

DARROW M. WATT

Kitchen-to-dining-room cart

A compact kitchen island with plenty of built-in storage space makes food preparation and serving especially easy for the Hayahiko Takases of Woodland Hills, California.

In one end of the island, drawers and cupboards hold pots, casserole dishes, and cooking utensils within easy reach.

In the other end, a cupboard on wheels comes out of its island garage to transport serving dishes to the adjacent dining room; it rolls on ball casters recessed in the base. The cart's stationary drawer front serves as a pull handle. Its top shelf is expandable—the sides are hinged to open up flat.

When it's in the island, the serving cart (built of oak to match other woodwork in the kitchen) doubles as storage space; a hinged door on one end opens like a standard cupboard door.

Although the island is a compact 4 feet long by 2½ feet wide, there's room enough around it for several cooks. Its top is easy-care synthetic marble to match the surrounding countertops.

Design was by Mutschler Kitchen, Los Angeles. □

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DON NORMARK

Skylighted *solarium creates open environment for plants and people. New door to right of alcove opens to back deck*

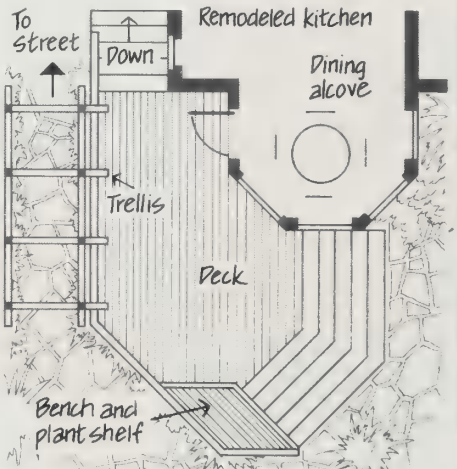
Bright new solarium-kitchen and deck

The original kitchen in this grand old half-timbered house on Seattle's Capitol Hill was typical of its era—dark and cramped. New owners Dr. and Mrs. Edwin Krebs appreciated the large rooms and high ceilings of the 1910 house, but they wanted a more cheerful kitchen with space for informal family dining and for displaying indoor plants. They also wanted easier access to their back yard so they could more easily use it for outdoor living.

Architect Philip L. Kallsen began by rearranging appliances and expanding work areas in the existing kitchen. New space at the end of the kitchen comes from an oversize bay window 10 feet wide and 8 feet deep—skylighted to create a solarium.

Using the solarium's five-sided shape as his cue, Kallsen added a floor-level deck outside it, with steps down to the rear garden.

Dr. Krebs built the side-yard lattice screen and did much of the deck work □



Repeating angle *of new solarium, wide steps go from deck down to garden. Trellised and screened walk is at far left*

Built-in *plant shelf on deck doubles as bench. Trellis supports hanging plants*

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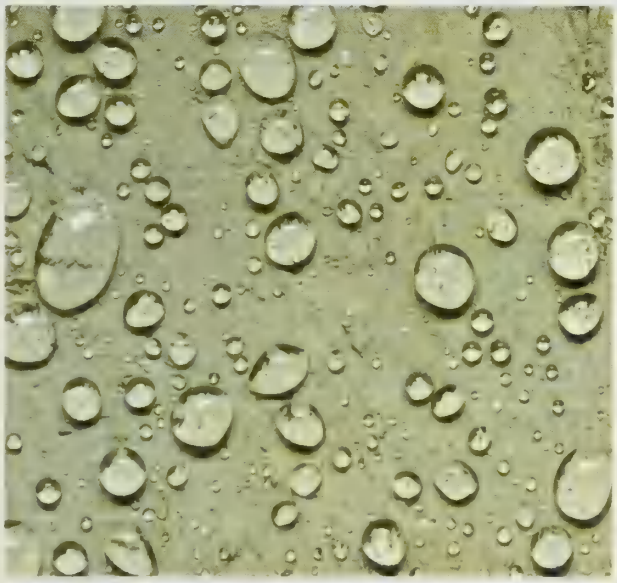

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NORMAN A. PLATE

Horizontal banding *of cedar runs above and below deep window wells*

Thick wall, skinny windows . . . light, storage, privacy at front door

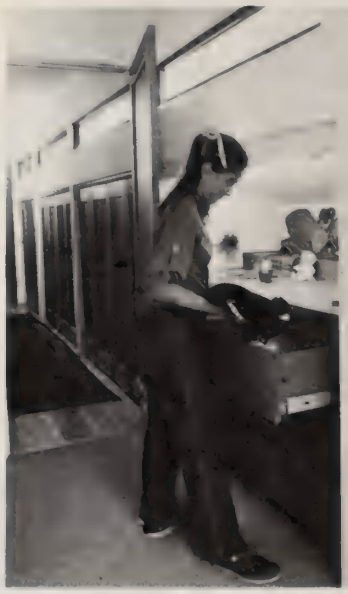
The deep recesses with narrow windows set almost at eave height might appear to be a sun-control device. But since this 30-foot-long wall faces northeast, the design serves another purpose: it brings light, privacy, and storage to the side of the house leading to the front door.

The 6-inch-high, 5½-foot-long windows open onto a hallway and a bedroom, bringing in indirect light but retaining privacy from guests walking to the entry.

Beneath the window, the tops of 2-foot-deep, 5½-foot-high cabinets angle downward to the outside wall. Fin walls separating the windows divide the cabinets and carry the roof load to the foundation. On the hall side, solid-panel bifold doors cover the front of the cabinets.

In the bedroom, one storage bay houses a built-in bureau that has a display area and lighting above it. To its right is a full-size clothes closet.

The house was designed for Dr. William Loomis by architect Peter Rodi of San Diego's Designbank.



Row of windows *runs above cabinets and above head height for privacy*

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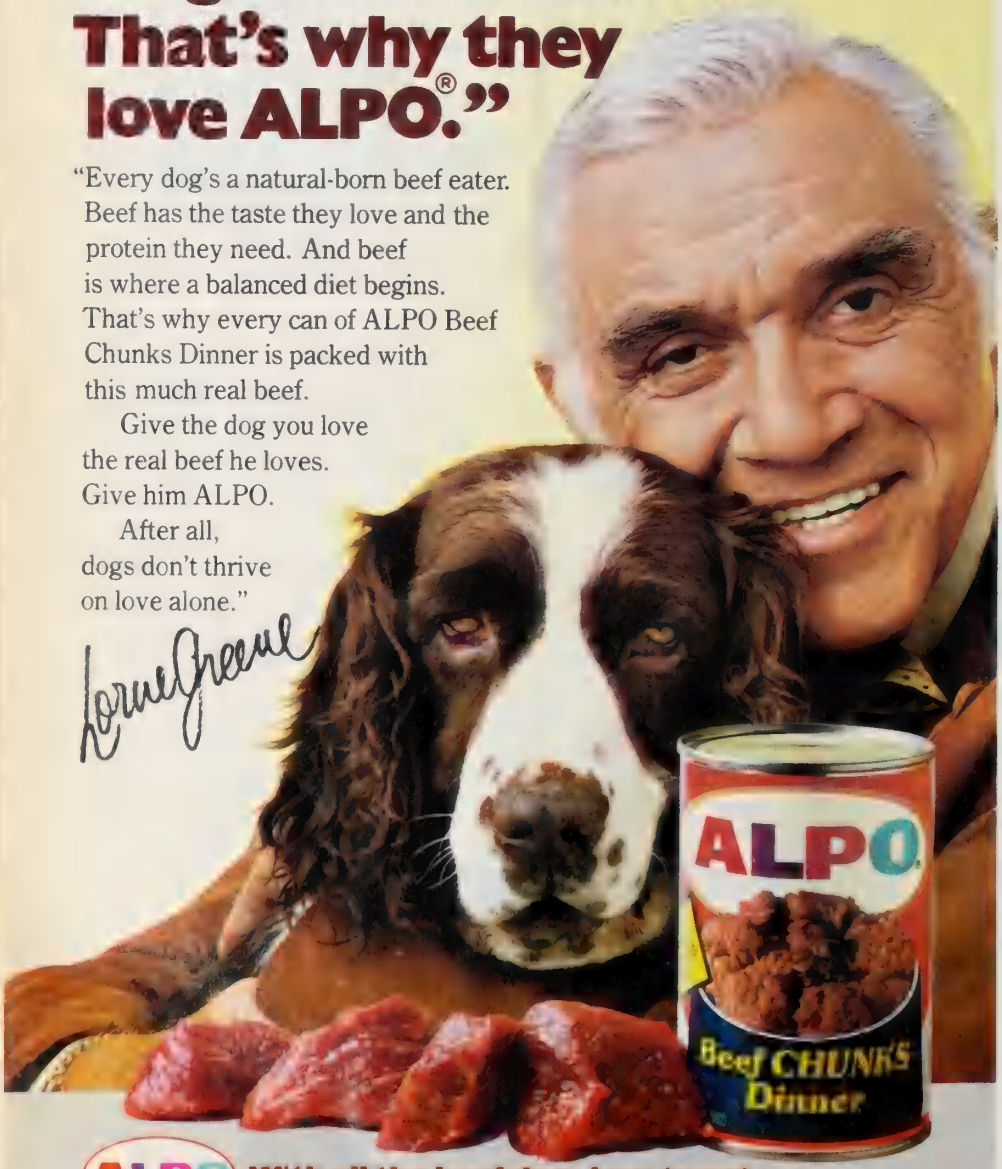
Lorne Greene



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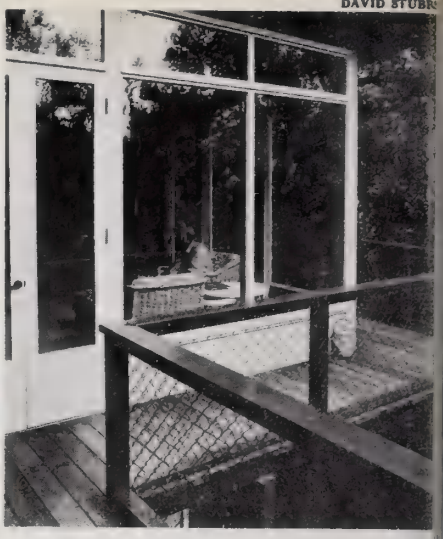

Wrapping around *second-floor family room addition, clean-lined deck railing preserves views into treetops*

Chain link *fencing prevents Ian's curiosity from leading him into danger*

Deck railing is safe, see-through

Like a tree house, this family room and deck addition seems to float among surrounding oak branches. To emphasize the sense of openness, San Francisco architect Theodore Bernardi designed a deck railing that blends into the view.

Chain link fencing, attached with U staples, covers a frame of 4-by-4 posts, 2-by-4 crosspieces, and a 2-by-6 cap. Painted black-green, the safety barrier almost disappears when seen against the dark foliage and spreading branches.

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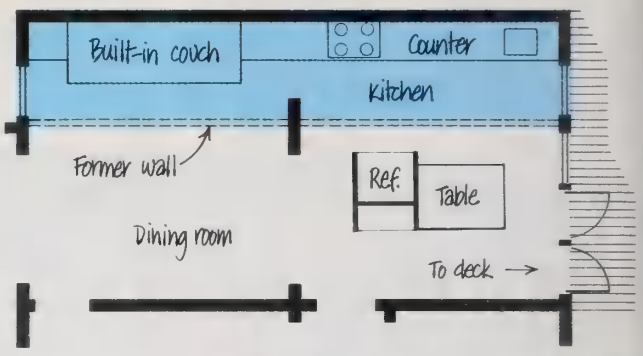
Adding just 5 feet along two rooms brings in daylight, built-in seating, storage



Kitchen and dining room *were enlarged 5 feet (colored area) and opened to each other; their functions remain separate*

Adding 125 square feet along two rooms doesn't seem like a monumental space gain. But in Fran Abel's Seattle house, running a 5-foot-wide addition along the south walls of the kitchen and adjacent dining room made a big difference: before the remodel, each room was only 8 feet wide and 12 feet long.

Topped with a long skylight, the addition brings daylight into the house and links one room to the other without turning them into a single undifferentiated space. The wall between the rooms (you see it edge-on in the photograph at right) was opened up but not removed, giving more than doorway glimpses of the kitchen from the dining room couch but masking cooking clutter from diners at the table.

The built-in dining-room couch is a good place to relax between cooking procedures and is big enough to serve as an extra bed. Hinged fir panels at its front flop open to more storage.

In the center of the kitchen is a free-standing kitchen counter and storage column. At one end, it houses the refrigerator with an open pantry on its reverse side; the other end has a built-in breakfast and work counter. □

DON NORMARK

Shelves and cabinets *along new wall under skylight provide organized-but-open storage. Narrow wall divides kitchen and dining room, helps support roof*

Storage column *stops short of ceiling for better distribution of light*

Maple-topped *table attached to vertical-grain fir column is table at breakfast, kitchen work surface through the day, study carrel at night. It's also a good spot to jot telephone notes*

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JERRY FREDRICK

A cooling garden alcove *accessible from indoors, lathhouse shades robust 14-year-old staghorn fern (above) and other shade-loving plants. Outside (right), cymbidiums thrive in part shade*

Living room opens to a shady ferny lathhouse

en when temperatures soar above 0°, shade-loving plants thrive in a oling lath alcove off this house in verside, California.

ıclosing sliding glass doors along the rth side of the living room, the 13- by -foot lathhouse secludes the exposure ›m the neighbors' view while allowing ›ners Gerri and Dan Spain to open their living room to a subtropical garden.

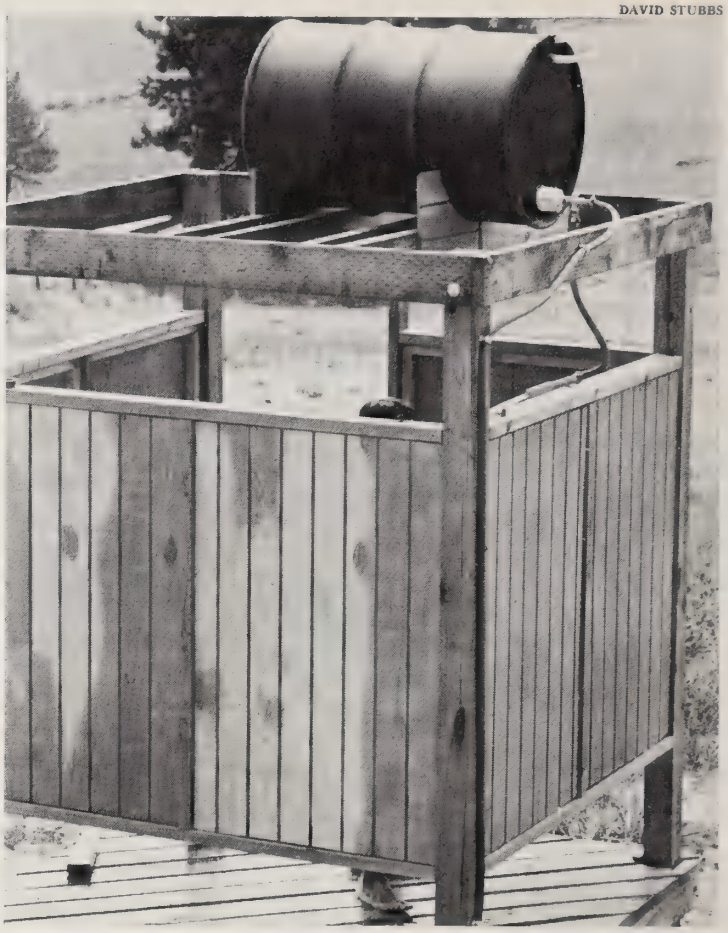
Cedar 4 by 4's set in concrete frame the lathhouse walls; they, along with metal plates mounted on the wall of the house, support 4-by-8 roof joists. Redwood lattice panels fit into grooves cut in the supports; the panels were stained a light color. For easy access to a side yard and potting area, an end panel of lattice swings open, as pictured above.

Protected from drying sun and wind, staghorn ferns, rhapis palms, rubber plant, and spider plants need only a weekly watering. Most get a half-strength dose of high-nitrogen water-soluble fertilizer every other week.

A gravel floor provides drainage for runoff and spills and helps keep air moist. □

The Changing Western Home

DAVID STUBBS



They've got the sun over a barrel

Doug and Bonnie Rohrer built this simple solar shower next to their pool in Coeur d'Alene, Idaho. They use it from May to October. A garden hose leads to a black 55-gallon drum cradled over a cedar-framed, plywood-clad stall. On a bright day, the water heats to about 110° in a morning. Opening the valve on a fan-spray hose nozzle releases the flow.

Pulling in the low-down cool air

One key to keeping your house comfortable on hot days is to get fresh air moving through it, as in these two examples.

Like an old-fashioned vegetable cooling bin, the cabinet-door opening at left in the wall of Hanley and Marcy Norins' house in Little River, California, lets in cool air from the north side of the house. As rising warm air vents through windows higher in the house, cool air is pulled in at the open base of the shingled wall extension you see above left.

To replace hot air vented at the peak of a greenhouse, San Francisco architect Ron Bogley built louvered vents with sliding wooden covers into a 5-inch-high cripple wall beneath the glass walls. The circulating air prevents overheating with no loss of security.

Baffling the sun and the neighbors

The afternoon sun's low rays penetrate deep into Emily and Edward Chan's kitchen, often warming it uncomfortably. Craftsman Daryl Rush of Piedmont, California, solved this problem with wooden baffles that block much of the light. The screens, applied over a large window and nearby glass door, also provide privacy from nearby houses.

The baffles are made of 1 by 2's. Alternately mounted flat or on edge, they are spaced 1½ inches apart and are held in place by countersunk finishing nails driven into a horizontal 1 by 2. For visual relief, Rush stopped every other flat-mounted 1 by 2 about 8 inches from the top of the window. Horizontal 2 by 3's at top and bottom anchor the screen to the window frame.

DARROW M. WALT

Beyond the wool cape and the firepit: ideas for outdoor warmth

A lot of places in the West get chilly after the summer sun goes down. That doesn't mean that your guests must traipse from the patio into the kitchen to warm up. Here you see some options in patio heaters.

Propane models. Most available kind for rent, these include the tower ($50 for a weekend, $600 to purchase), the blower ($25 and $425), and the radiator ($25 and $300). You get what you pay for: the tower sends out heat 30 feet in all directions; the other two claim a reach of 25 feet in one direction (cut distances in half for a windy or open area).

Kerosene heaters. Sold as indoor heaters and available at many rental centers, these cost $100 to $400 depending on size and output. The radiant types work best outside; convection ones lose more heat because there's no enclosure to trap it. To cut down on odors, use the purest kerosene possible.

Electric heaters. These are very effective and can be less obtrusive than the others. But they draw a lot of juice; the 2,500-watt overhead one you see is rated at 240 volts; it costs $200.

RICHARD FISH

Tiled platform *runs across 12-foot-wide bath. Shower is in back alcove*

Bath on platform for a deep soak

An elevated bathing platform was the inspired but practical solution for this bathroom remodel. The inspiration came when Jane and Louis Jacobson of Pacific Palisades, California, took a trip to Japan and discovered the deep soaking tubs in their hotels.

The Jacobsons decided to install a deep tub of their own, but they wanted to add whirlpool jets. Since they had to hide the jet pipes and couldn't sink the tub into the ground, a platform was a practical solution.

The L-shaped platform stands 20 inches high, and the tub sticks up another 15 inches. (With 9-foot-high ceilings, there's still plenty of headroom.) The outside diameter of the 32-inch-deep tub is 48 inches, the inside 33 inches.

The tub, which started out as a wooden hot tub, sits in a waterproof pan on the existing floor. The Jacobsons fiberglassed the tub before building the tub surround and platform with 2-by-4 studs and plywood. A layer of hot tar and mortar seals the tub and platform to provide a base for the decorative tiles.

Since part of the Japanese soaking tradition requires bathers to wash before entering the tub, the platform bath includes a shower close by. The shower head mounts to the wall in the short leg of the L, and the floor slopes to a drain in the platform. High windows along the side wall add light, retain privacy, and open to vent built-up steam. □

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San Antonio Shopping Center
2550 W. El Camino Real
Napa
933 Coombs
Newark
2065 New Park Mall
Oakland
Downtown, 2120 Webster St.
273 Eastmont Mall
Palo Alto
524 University Ave.
Petaluma
Golden Eagle Center, 32 E. Washington St.
Rancho Cordova
2853 Zinfandel Dr.
Redding
1670 Market St.
Redwood City
Boardwalk Shopping Center, 400 Walnut St.
Richmond
Hilltop Mall, 2339 Hilltop Dr.
Sacramento
Downtown Plaza, 570 J St.
4111 Marconi Ave.
Florin Mall, 5905-B Florin Rd.
Arden Fair Shopping Center, 1607 Arden Way
Country Club Plaza, 2377 Butano Dr.
Salinas
Northridge Center, 1166 Northridge Center
San Bruno
203-A Tanforan Park Shopping Center
San Francisco
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444 Bush St.
820 Valencia St.
2108 Chestnut St.
2350 Irving St.
3370 Geary Blvd.
San Jose
Valley Fair Shopping Center, 16 Valley Fair
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Northglenn
1466 W. 104th
Southglenn Mall
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Ft. Collins
100 W. Oak
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Mesa Mall
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Longmont
1834 N. Main
Loveland
335 E. 6th
Pueblo
Pueblo Mall, 3421 Dillon Drive
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East (Rustic Hills), 1745 Academy Blvd.
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Salt Lake City
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Crossroads Plaza, 50 S. Main
Sugerhouse, 2201 S. Highland Dr.
87 W. 3300 South
American Fork
85 N. Merchant St.
Bountiful
45 W. 200 South
Cedar City
103 W. Center
Ft. Union
Family Center, 1080 E. Fort Union Blvd.
Kearns
4780 South-4015 West
Layton
Layton Hills Mall
Logan
10 S. 100 East
Ogden
Ogden City Mall, 24th & Washington Blvd.
Five Points Family Center
87 N. Harrisville Rd.
Orem
University Mall, 101 N. University
Price
107 E. 100 North
Provo
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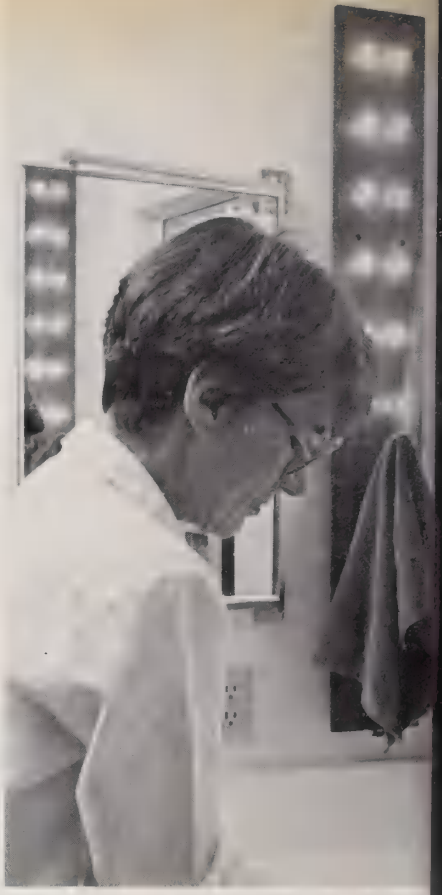
DAVID STUBBS
Under-cabinet bank *of clear globes provides light for this vanity area*

To replace conventional light fixtures in two bathrooms in his house in Redlands, California, architect Leon Armantrout used rows of decorative clear bulbs. The homemade fixtures provide a warm, even, incandescent glow. Both installations are dimmer-controlled.

Under a cabinet above the sink in one bathroom (at left), Armantrout installed clear 15-watt globes. The ceramic candelabra sockets were installed through holes drilled in the cabinet bottom; the wiring was enclosed inside the cabinet under a routed wood trim strip. A mirror covering the wall reflects the lights.

On each side of the master bathroom sink (at right), two rows of 7-watt clear Christmas bulbs in sockets were glued into holes drilled in walnut 1 by 6's set over existing electrical boxes. You see the reflection of the second fixture in the mirror. Towel hooks were mounted beneath the lights. □

Rows of clear globes and Christmas lights brighten two baths



Clear Christmas lights *mounted in walnut 1 by 6's flank sink in master bathroom. Hook keeps towel handy*

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DAVID STUBBS

Dowels *through panels rest on door-mounted hooks (above) or on a wood holder*

Fabric panels for French door privacy

Simple fabric panels designed by Muriel Freer of Oakland cover her French doors when needed; otherwise, they hang on a nearby wooden holder.

To make similar panels, you'll need medium-weight fabric, insulative lining, right-angle hooks, a 1-by-4 board, ⅜-inch dowels, and 1½-inch woodscrews.

To find how much fabric you'll need, measure your windows, adding 3 inches to the width and 12 inches to the height. Cut fabric and lining; with their right sides together, stitch ½-inch seams along sides and top. On right side, topstitch side seams ⅜ inch from edge. Sew a 1-inch top casing and a 4-inch double hem.

Cut dowels 2 inches longer than width of panels; insert through casing. Screw hooks into doors. For the holder, cut the 1 by 4 four inches longer than the shades' width. Drill ⅜-inch holes; glue in 2-inch-long dowels. Screw board to wall. □

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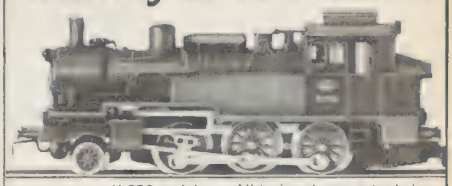

(1:220 scale) All trains shown actual size

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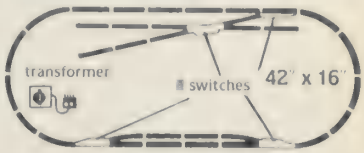

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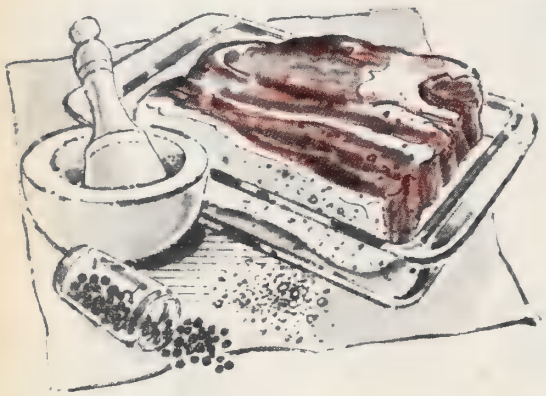
Sunset's Kitchen Cabinet®

In June, cooking adapts to warmer days with more outdoor meals, lighter foods, casual entertaining.

For example, celebrate Father's Day with grilled chuck roast coated in crushed black pepper. Accompany it with the marinated vegetables an sweet cherries baked in cream custar for dessert.

When you need a speedy family su per, try the Greek eggs. And for en tertaining throughout the season, us



Crush whole black peppers with a mortar and pestle to coat marinated chuck roast

Grilled Peppered Roast

Chuck roast, marinated and peppered, is an economical choice for grilling.

- 1 beef chuck roast (4 to 5 lbs.), cut about 2 inches thick
- ½ cup salad oil
- ½ cup red wine vinegar
- 2 tablespoons Worcestershire
- 2 large cloves garlic, minced
- 1 teaspoon basil leaves
- Instant unseasoned meat tenderizer (optional)
- 4 to 5 tablespoons whole black peppers, coarsely crushed

Pierce the roast deeply all over with a fork; place in a plastic bag set in a shallow pan. Stir together the oil, vinegar, Worcestershire, garlic, and basil; pour over meat. Cover an chill, turning meat occasionally, least 4 hours or overnight. Lift me from marinade and sprinkle wit meat tenderizer according to lab directions. Spread crushed peppe corns out on a flat surface and pre meat in pepper, coating both sides.

Place meat on a greased grill 4 to inches above a solid bed of glowin coals. Cook, turning once, bastin with reserved marinade, until meat done to your liking when cut: 30 to 4 minutes for rare. To serve, cut me across grain in thin slanting slice Serves 6 to 8.—*S. K., Sacramento.*

Sprinkle feta cheese, big Greek olives, parsley, and tomato over scrambled eggs

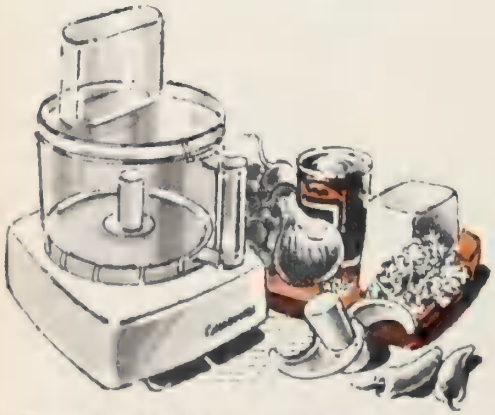
Greek Scrambled Eggs

Scrambled eggs take on Middle Eastern flair when feta cheese and Greek olives dot the surface. Serve for breakfast or as a quick supper accompanied by a green salad.

- 12 eggs
- ¼ cup water
- ¾ teaspoon oregano leaves
- ⅛ teaspoon pepper
- 2 tablespoons butter or margarine
- 6 to 8 ounces feta cheese
- 1 medium-size tomato, diced
- ¼ cup chopped parsley
- 10 to 12 whole Greek olives or pitted ripe olives

In a bowl, beat together the eggs, water, oregano, and pepper with a fork. In a 12- to 14-inch frying par melt the butter over low heat. Pour i the egg mixture. As it sets, push asid the cooked egg with a wide spatula, s the uncooked portion can flow to th pan bottom; cook until the eggs ar just softly set.

Break cheese into about ½-inc chunks and sprinkle evenly over egg Place pan under the broiler 4 to inches from heat and cook just unt cheese gets hot, 1 to 2 minutes. Sprin kle evenly with the tomato and par ley; garnish with olives. Cut in wedge to serve. Makes 6 servings.—*C. S Portland.*



To make this salsa quickly, chop all the vegetables in a food processor

Chunky Salsa

If you like this mild salsa hotter, use more chilies.

- 1 can (about 1 lb.) tomatoes
- 2 or 3 small fresh hot chilies or pickled hot chili peppers
- 1 small green bell pepper, stemmed, seeded, and coarsely chopped
- ⅓ cup coarsely chopped mild onion
- ⅓ cup coarsely chopped radish
- 3 tablespoons chopped green onion
- 1 can (4 oz.) diced green chilies, drained
- 2 to 3 tablespoons chopped fresh coriander (cilantro)
- ½ cup shredded jack cheese

In a food processor or blender, coarsely purée tomatoes with their juice. Pour into a small bowl. Discar seeds from hot chilies, if desired, an finely chop chilies; add to tomatoes Add green pepper, mild onion, radish green onion, green chilies, coriander and jack cheese to tomatoes; stir to gether to blend. Serve now or cove and chill as long as 5 days. Make about 3½ cups.—*V. F., South Laguna Calif.*

Serve this salsa as a dip for tortill chips, celery sticks, jicama or cucum ber slices; as a sauce for grilled o broiled chicken, fish, pork chops, o beef steaks; or as a condiment fo tacos, hamburgers, or frankfurters.

ıe versatile salsa as an appetizer, ıuce, or condiment.

o share your original recipes, send ıem to *Sunset Magazine*, Menlo ark, Calif. 94025. We pay $25 for ıch recipe published.

Chuck roast on the barbecue, quick lettuce bread, fresh baked Bings

Iarinated Broccoli and Mushrooms

elery seed spices this cool marinated ɜgetable combination.

- About 1½ pounds broccoli
- Water
- ¾ pound mushrooms, thinly sliced
- 1 cup thinly sliced green onions
- 1 cup thinly sliced celery
- ¼ cup sugar
- ⅓ cup cider vinegar
- 1 teaspoon paprika
- 1 teaspoon celery seed
- 1 cup salad oil
- Salt and pepper

ut off broccoli flowerets and cut into te-size pieces. Trim and discard ugh stalk ends; peel remaining alks and stems, then cut diagonally into ¼-inch-thick slices. Place on a rack over boiling water in a pan (about 5 qt.); cover and steam on high heat until barely tender-crisp, 1 to 2 minutes. Immerse in cold water until cold; drain well.

In a large bowl, combine broccoli, mushrooms, green onion, and celery. In a small bowl, stir together sugar and vinegar until sugar dissolves. Add paprika, celery seed, and oil; stir to blend. Mix with vegetable mixture. Cover and chill, stirring occasionally, 1 to 2 hours. Add salt and pepper to taste. Makes 6 to 8 servings.—*S. S., Mesa, Ariz.*

Broccoli, mushrooms, celery, and green onions bathe in a sweet-tart dressing

eaf Lettuce Bread

se any mild-flavored lettuce in this ıick bread to add moistness. It tastes mewhat like a zucchini bread.

- ½ cups all-purpose flour
- 2 teaspoons baking powder
- ½ teaspoon *each* soda and salt
- ⅛ teaspoon *each* ground ginger and mace
- ½ cup salad oil
- 1 cup sugar
- 2 eggs
- ½ teaspoons grated lemon peel
- 1 cup lightly packed, finely chopped green or red leaf lettuce
- ½ cup chopped nuts

ı a small bowl, stir together the ɔur, baking powder, soda, salt, ginger, and mace. In a medium-size bowl, beat together the salad oil, sugar, eggs, and lemon peel until well blended. Add flour mixture, mixing until smooth. Stir in lettuce and nuts. Pour into a greased and floured 4- by 8-inch loaf pan.

Bake in a 350° oven until the bread is golden brown on top and a wooden pick inserted in center comes out clean, 50 to 55 minutes. Cool in pan on a wire rack, about 10 minutes. Turn out of pan and continue cooling on rack. Serve slightly warm or cooled. Makes 1 loaf.—*J. H., Lynden, Wash.*

This sweet bread is laced with lettuce; spread slices with cream cheese, butter

aked Bings

his dessert has a moist pudding-like xture. Serve it warm, in bowls.

- 1 cup all-purpose flour
- ½ cup sugar
- 6 tablespoons butter or margarine
- 2 tablespoons cold water
- ½ cup whipping cream
- 2 tablespoons lemon juice
- 2 eggs, slightly beaten
- 2 pounds (about 5 cups) Bing cherries, pitted
- ⅓ cup sliced almonds
- Sweetened whipped cream (optional)

ombine the flour and ¼ cup of the ıgar; with a pastry blender or your ıgers, mix in butter to form even-size crumbs. With a fork, mix in the water until dough holds together. Press over bottom and about ½ inch up sides of a shallow, round 10-inch baking dish. Bake in a 350° oven until lightly golden, about 20 minutes.

Meanwhile, beat together until blended the cream, remaining ¼ cup sugar, lemon juice, and eggs. Pour cherries into crust and evenly pour cream mixture over them. Bake at 400° until center appears set when gently shaken, about 20 more minutes.

Sprinkle with almonds. Serve warm in bowls. Pass whipped cream. Serves 8.—*U. P., Belmont, Calif.*

Offer custard-glazed cherries baked in a crust with whipped cream or unadorned

Curing an

Smoking brined fish is an ancient tech nique that not only preserves your catch but turns it into a delicacy. A measure o its value is the price smoked fish com mands in markets. Yet with just a fev hours' time and minimal equipment, yo can produce it at home.

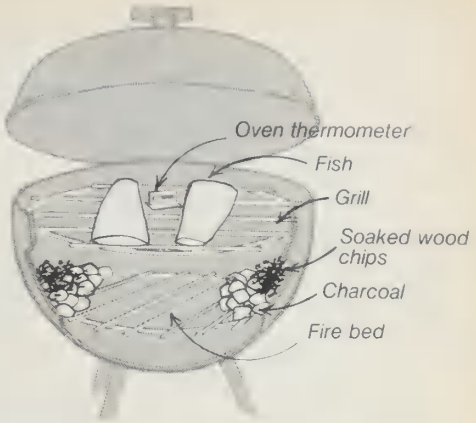
Two basic steps are involved. The first i to cure the fish—either by soaking it in brine or by packing it in a dry cure. W give directions for both. We found it eas ier to control the amount of salt penetra tion and the moistness of the finished fis with a wet brine. But the dry mixture which requires no pans, is an easy way t cure and smoke fish at your fishing site.

Smoking, the second step, can be done o any type of covered barbecue (includin commercial smokers). The size of th grill determines how many fish you ca smoke at a time. Cooked slowly over lo heat that's carefully monitored with a oven thermometer, the fish stays mois

DARROW M. WATT

When the smoke clears, *it's time to add more wood chips to the hot coals. Smoke penetrates fish as it cooks, transforming it in a rich delicacy such as this smoked salmon*

moking your own fish



nd has time to absorb the swirling noke of the wood chips.

lmost any type of fish can be smoked, ut fatty types such as salmon, steelhead, out, sturgeon, sablefish (or butterfish), bacore, or mackerel retain a moister xture. Striped bass, moderately low in t, is also excellent.

erve smoked fish warm or at room temerature as an entrée, an appetizer, or r breakfast. The flavor is quite rich, so ortions can be modest.

reparing and curing the fish

lean and scale the fish. Use small trout mackerel whole. Fillet larger fish (cut half lengthwise and discard backbone, ut do not skin). Or use 1- to 1½-inchick steaks.

o cure, use either the wet brine or dry ack method that follows. Each mixture akes enough to cure 10 pounds of fish.

Vet brine cure. In a noncorrodible coniner (such as glass or stainless steel) ist large enough to hold your fish, comne 3 quarts **cold water,** 1½ cups **salt,** cup firmly packed **brown sugar,** 1½ ips **granulated sugar,** 1 tablespoon **hole white peppercorns,** 6 **bay leaves,** ½ teaspoons *each* **whole allspice** and **oves,** 2 teaspoons **ground ginger,** and 2 oves **garlic** (peeled and split). Stir riskly until salt and sugar dissolve. Add sh to brine, making sure all surfaces are overed (if fish floats, turn skin side up flesh is submerged). Cover and let and at room temperature 2 hours or in e refrigerator as long as 6 hours.

ry pack cure. In a large container, mix gether 1 cup *each* **rock salt** and firmly acked **brown sugar,** ¾ teaspoon **ground hite pepper,** ½ teaspoon *each* **ground llspice** and **ginger,** ½ teaspoon **cracked ay leaf,** and 1 clove **garlic,** minced or ressed. Arrange sheets of waxed paper n a flat surface. Sprinkle about ⅓ of the lt mixture in center of paper and set sh skin side down on top of it. Pat reaining mixture onto flesh. Cover and let and at room temperature 2 hours or in e refrigerator as long as 6 hours.

fter curing, lift fish from wet or dry lt mixture; rinse thoroughly under a slow stream of cold water, gently rubbing flesh, if necessary, to release salt.

Before it's cooked, *fish is cured in either a wet salt brine or a dry rock salt pack*

Place fish skin side down on several layers of paper towels. Blot to dry. Let dry uncovered at room temperature until flesh feels tacky, about 30 minutes.

Ignite 20 charcoal briquets on the firebed of your barbecue. Cover about 4 cups of hickory chips with water; let stand at least 20 minutes. Also prepare syrup baste; stir together ⅓ cup **maple-flavored syrup,** 1½ tablespoons **soy sauce,** and ¼ teaspoon **ground ginger;** reserve.

When the coals are completely covered with gray ash (about 30 minutes), push 6 coals to each side of firebed in a medium-size (22-inch diameter) covered barbecue, 5 coals to each side in a small (18-inch diameter) barbecue, and about 8 coals to each side in a large (26-inch diameter or 19- by 33-inch rectangle) barbecue. Transfer any remaining coals to another barbecue or metal pan; add 4 to 6 new coals so they'll ignite for later use.

Grease grill. (For fish fillets, lightly grease skin to prevent sticking.)

Smoking

Drain wood chips; sprinkle about ½ cup over each half of the hot coals in barbecue. Set grill about 6 inches above coals. Position fish (skin side down for fillets) side by side on center of grill so no part extends over coals. Place oven thermometer in center of grill, on top of fish if necessary. Put hood over grill. If barbecue is vented, adjust to maintain low heat (check manufacturer's directions).

When fish has smoked about 20 minutes, check thermometer; it should read 160° to 180°. If temperature drops below 160°, add a hot coal or 2 to each side of barbecue (or remove 1 or 2 coals if too hot). Sprinkle each pile of coals with an additional ½ cup wet hickory chips. Pat surface of fish with a paper towel to keep dry; brush lightly with syrup baste.

About every 20 to 30 minutes, check barbecue. Add coals as needed to maintain 160° to 180°; add wood chips as needed to produce a steady stream of smoke. Each time you check the barbecue, blot fish with a paper towel and brush with syrup baste.

Continue smoke-cooking until fish flakes when prodded with a fork in thickest portion; it takes about 1 hour for small fish, 2 to 3 hours for 1- to 1½-inch-thick fish fillets or steaks.

To remove fish from grill, loosen edges with a wide spatula, if necessary, then slide gently onto a rimless baking sheet; serve hot or let cool to room temperature. To store, wrap airtight and refrigerate as long as 2 weeks or freeze up to 6 months; thaw to serve. □

Ginger is Oriental, chilies are American. Garlic is universal. Our Chef's creation is ecumenical

Gingered Pork Chops sound as if they are Oriental in inspiration, but George Lewis's creation is really ecumenical in its seasoning. The ginger is surely Oriental, although ginger ale and beer are as surely less so. The green chilies come from tropical America. The mint, native to Europe, North Africa, and western Asia, is a standard herb in Near Eastern cookery. Garlic, whatever its origin, is now universal.

They blend beautifully here with the rich and accepting flavor of the pork chops.

Gingered Pork Chops

- 4 large shoulder pork chops, *each* ¾ to 1 inch thick
- 1 bottle (10 or 12 oz.) ginger ale or ginger beer
- 1 teaspoon prepared green chili salsa or taco sauce
- 1 tablespoon finely chopped fresh mint or crumbled dry mint
- 3 thin slices fresh ginger
- 2 cloves garlic, minced or pressed
- Mint sprigs or fresh coriander (cilantro)
- Salt and pepper

Trim excess fat from meat; place 1 or 2 pieces of fat in a 10- to 12-inch fryin pan over medium-high heat and cook until enough fat is rendered out to coa pan bottom, then lift out fat and discard Add meat to pan and cook until browne on all sides.

Meanwhile, in a small bowl, stir togethe the ginger ale, salsa, mint, ginger, an garlic; pour over meat. Bring liquid to boil, cover pan, reduce heat, and sim mer until meat is tender when pierce and no longer pink when slashed nea bone, 50 to 55 minutes.

Transfer meat to a serving platter; kee warm. Turn heat to high and cook unt juices are reduced to about ¾ cup. Pou sauce over meat and garnish with fres mint sprigs. Season to taste with salt an pepper. Makes 4 servings.

George H Lewis

Stockton, Calif.

With utter disregard for the possible cor sequences of his act, Samuel Hill plante

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But why stop with ham? Hormel also makes Chunk Turkey and Chunk Chicken. All delicious!

a dozen cabbage seedlings in his garden in Long Beach, California. We'll let him describe what happened next:

"Four months later, with the smallest head weighing five pounds, we needed a way to take advantage of nature's bounty. The cabbages were heavier, less cuddly, and harder to press upon neighbors and friends than the proverbial free kittens. . . . A saline solution provided an interim solution: the salt brine kept spoilage at bay. But because the youngsters were unlikely to accept sauerkraut as a substitute for bananas on cereal, or even for cookies and apples as snacks, additional thought was clearly required. Subsequent culinary experiment with the pickled product resulted in the marriage of California produce and braised meat in the recipe submitted below."

California Sauerkraut and Shanks

- 2 pounds homemade or prepared sauerkraut, drained
- 3½ to 4 pounds beef shanks, in 1-inch-thick slices
- 2 medium-size onions, each cut into 8 wedges
- 2 medium-size tart apples
- 2 medium-size oranges
- ¾ teaspoon ground sage
- 1 teaspoon caraway seed
- 2 tablespoons firmly packed brown sugar
- 1 bay leaf
- 2 whole allspice
- 3 whole cloves
- 2 tablespoons cider vinegar
- ½ cup dry white wine
- 1 cup regular-strength beef broth
- 12 pitted prunes

In a 5- to 6-quart kettle, place ½ of the sauerkraut in an even layer. Trim excess fat from meat and discard; distribute meat over sauerkraut and top evenly with onion. Peel apples, if desired, core, and cut into ¼-inch slices; evenly arrange over onion.

Grate enough orange peel to make 1 teaspoon; set aside. Cut peel from 1 of the oranges, discarding all white membrane. Cut flesh into ½-inch cubes; distribute grated peel and orange cubes over apple, then sprinkle with the sage and half of the caraway.

Evenly top with the remaining sauerkraut and evenly sprinkle with the remaining caraway and the sugar. Tuck in bay, allspice, and cloves, then drizzle sauerkraut with vinegar, wine, and broth. Bring mixture to a boil over high heat; cover, reduce heat to low, and simmer for 1 hour. Add prunes; cover and cook until beef is very tender when pierced, about 1¼ hours longer.

Arrange beef, sauerkraut, and fruit on a rimmed serving platter. Spoon juices over all. Cut remaining orange into slices or wedges and use for garnish. Eat from wide bowls. Makes about 6 servings.

Long Beach, Calif.

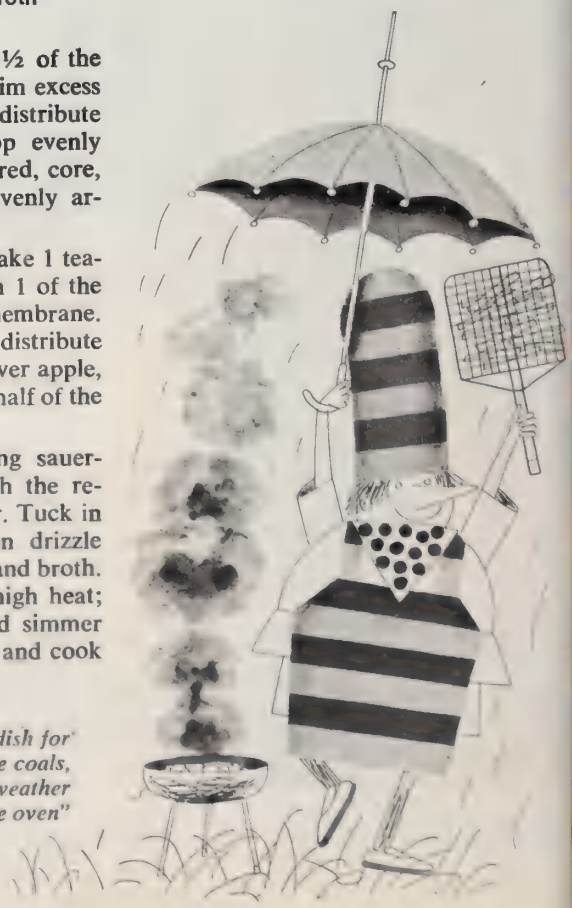
The Mark Thompsons of Aberdeen, Washington, have a summer place on the Hood Canal, so it is natural that they should call one of their favorite summer dishes Hood Canal Potatoes. Mr. Thompson devised the dish for cooking over barbecue coals, but in really rotten weather you can cook it in the oven.

These agreeable potatoes look like French fries, but the onion soup mix and butter give them a more complex flavor, while the skins add visual interest and increased nutrition as well as flavor.

Hood Canal Potatoes

- 4 medium-size (about 2 lbs.) russet potatoes
- 3 tablespoons dry onion soup mix
- ¼ teaspoon pepper
- 4 tablespoons butter or margarine

Scrub potatoes; do not peel. Cut each potato lengthwise into ¼- to ½-inch wide spears. Place potato spears in an even layer on a 12- by 24-inch sheet of



"He devised the dish for cooking over barbecue coals, but in really rotten weather you can cook it in the oven"

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eavy-duty foil. Evenly sprinkle with nion soup mix and pepper, then dot ith butter. Bring edges of foil together ver top of potatoes; fold together to ghtly enclose potatoes, then fold in ends o form a leakproof packet.

o barbecue, place potato packet on a rill 4 to 6 inches above a solid bed of edium-glowing coals. Cook, shifting nd turning packet several times to cook venly, until potatoes feel very tender hen pressed, about 1 hour. (To bake, lace packet in a 400° oven for 1 hour.) Iakes 4 servings.

Aberdeen, Wash.

omemade ice cream, once the finale of very large social event in rural Amer-a, is making a comeback with the de-lopment of inexpensive electric mix-s. Dennis Sherwood regards such auto-ation as abomination. We can under-and: when you invest your own labor r your kids' labor) in 20 or 30 minutes hand-cranking, you sharpen your ap-tite and heighten your anticipation. ven so, we bow to convenience and the nes and machine-crank his ice cream.

rated Chocolate Ice Cream

1 quart milk
2 cups (1 pt.) half-and-half (light cream)
6 egg yolks
2 cups sugar
2 teaspoon salt
8 ounces semisweet chocolate
2 cups (1 pt.) whipping cream
2 tablespoons vanilla

the top of a double boiler, combine lk and half-and-half; place over me-m-high heat and cook, stirring, until lded. In a medium-size bowl, beat egg lks until well combined; stir a small nount of the hot milk mixture into the gs, then return egg mixture to top of uble boiler. Stir in sugar and salt. ace over simmering water and cook, ring, until custard thickens and evenly ats a metal spoon. Remove at once m heat.

arsely chop half of the chocolate d stir into custard until chocolate lts. Set aside to cool. Grate or shred remaining chocolate. Whip the cream t until soft peaks form; stir in vanilla d cooled custard. Pour into 1-gallon ntainer for ice cream maker. Pack with and salt according to manufacturer's ections and churn for 15 minutes; add ted chocolate and continue to churn il ice cream is thickened. Serve while t or pack in ice and freeze until firm. kes about 3 quarts.

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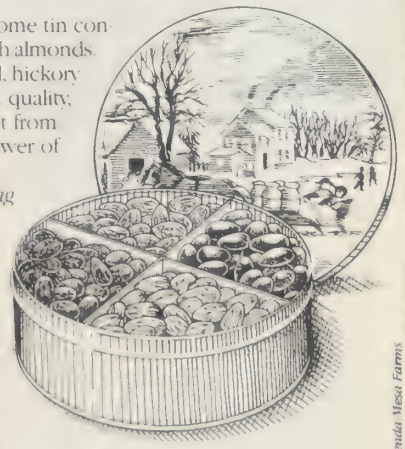

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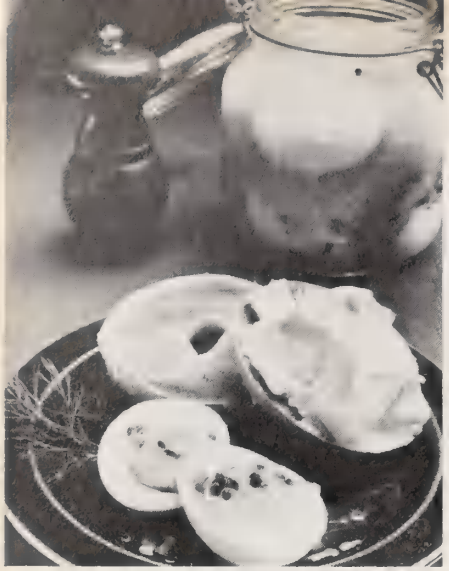

TERI SANDISON

Piquant *pickled eggs contrast agreeably with the richness of bagels, cream cheese, smoked salmon*

The longer they stand, the picklier they get

Jars of hard-cooked eggs, packed in vinegar and spices, are a familiar sight in delicatessens. Pickled eggs are simple to make and handy for summer meals. Served with crisp crackers or rolls, they have a pleasant tart flavor that goes well with meat salads, cold sliced meats, and cheese.

The pickled flavor seeps into the center of the egg in about a day, but the longer the eggs stand, the more pronounced the flavor will be. On aging, the white of the egg becomes firmer; you can store the eggs in the refrigerator as long as a month.

Old-fashioned Pickled Eggs

- 1 dozen eggs
- Water
- About 2 cups distilled white vinegar
- 2 small, dried hot red chili peppers
- 1 small onion, finely chopped
- 1½ teaspoons mixed pickling spice
- ½ teaspoon *each* whole black peppers, mustard seed, and salt

Place eggs in a 3- to 4-quart pan and add enough cold water to cover by 1 inch. Set pan, uncovered, over high heat and bring water to simmering (bubbles will just begin to rise rapidly from pan bottom but will not break the surface). This takes about 8 to 11 minutes. Reduce heat to just under boiling and cook for 12 to 15 minutes. At once, drain eggs, immerse in cold water until cool enough to handle; shell, and pack in a wide-mouthed 1- to 1½-quart jar or deep bowl.

Meanwhile, in a 1½- to 2-quart pan, combine 2 cups of the vinegar, the chilies, onion, pickling spice, black peppers, mustard seed, and salt. Bring to a boil and simmer, uncovered, over medium heat for 15 minutes. Pour over eggs, adding more vinegar if needed to cover them. Let cool, then cover tightly and refrigerate at least 24 hours before serving or as long as 4 weeks.

To serve, spoon out eggs, moistening each with some of the vinegar mixture. Serves 6 to 8.

Pickled Pink Eggs and Beets

Hard-cook 1 dozen eggs as directed for Old-fashioned Pickled Eggs. Shell and combine in a wide mouthed 2-quart jar or deep bowl with 1 can (1 lb.) **sliced pickled beets** and their liquid, 1 small **red onion** (very thinly sliced), 1 tablespoon **sugar,** ½ teaspoon **salt,** and 1 **bay leaf.** Add enough **cider vinegar** (about 2½ cups) just to cover the eggs. Cover tightly and refrigerate at least 24 hours before serving or as long as 4 weeks.

To serve, lift out eggs, beets, and onions onto a serving dish; moisten with some of the vinegar mixture. Serves 6 to 8. □

Since 1928, people haven't just eaten our ice cream, they've loved it.

WILLIAM DREYER

How William Dreyer Answered The Question Of Vanilla.

When asked by a well meaning economizer why he didn't use artificial vanilla, since it could save him a lot of money, William Dreyer said nothing.

When it was further pointed out that the first bite of ice cream made with artificial vanilla often tastes like the first bite of ice cream made with real vanilla, William Dreyer's response was quick and definite.

"Yes, but no one takes just one bite of my ice cream!"

The man, who at that moment was lovingly spooning up the last bite, from what had been an enormous bowl of Dreyer's Vanilla Ice Cream, said no more.

This proved what William Dreyer knew all along: If it were a question of quality, his ice cream always had the final say.

Stories like the above are not only part of The Dreyer's Heritage of Ice Cream Making, they form the basis for the way we continue to do business. For example, the pure, Madagascar vanilla we use costs us $55 a gallon, sometimes more, yet we refuse to compromise and use artificial vanilla, which costs just $14 a gallon. After all, we're not out to make an ice cream you just eat. We're out to make one you love.

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DARROW M. WATT

Memorable dessert: *top cherry soup with whipped cream, sprinkle on powdered sugar*

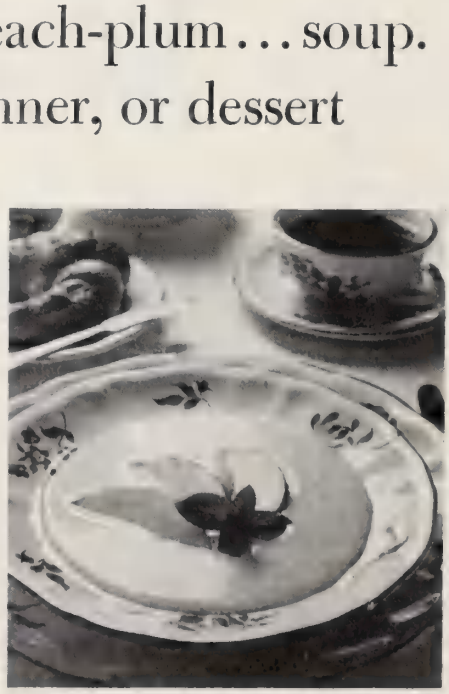
Cherry, apricot, peach-plum . . . soup. For brunch, dinner, or dessert

Refreshingly cold, tart-sweet fruit soups, traditional favorites in European cuisines, show off the fresh colors and flavors of the Western summer harvest.

Easy and quick to prepare, these three soups can be geared toward simple or elegant occasions. Start by poaching the fruit, then puréeing it. Add whipping cream, sour cream, or unflavored yogurt to the fruit base; each gives a distinct character to the soup.

With whipping cream and sour cream you get a smooth, velvety soup, suitable for a sophisticated dessert. Yogurt lends a lighter finish, and the resulting soup is appropriate as a first course for a dinner party; or serve it with hot croissants as an unexpected dish for brunch, followed by omelets or a quiche.

Because the soup bases freeze well, you could hold them to serve later as an out of-season treat.



Weekend brunch *has an unusual beginning: cold tart-sweet soup made from fresh peaches and plums*

Peach and Plum Soup

- ¾ pound *each* peaches (or nectarines) and Santa Rosa plums
- Water
- 1 cup dry white wine
- 1 stick cinnamon, about 2 inches long
- 1½ tablespoons lemon juice
- ⅓ to ½ cup granulated sugar
- 1 tablespoon *each* cornstarch and water, blended smoothly
- ¼ cup orange or peach liqueur (optional)
- 1 cup whipping cream, sour cream, or unflavored yogurt
- Powdered sugar (optional)

Dip peaches and plums in boiling wate to cover for 30 to 60 seconds, just unti skins begin to blister. Lift out and plung immediately into cold water to cover Remove from water and with a knif pull off skins and discard.

Cut fruit into chunks (discard pits) an combine in a 3- to 4-quart pan with th wine, 1 cup water, cinnamon, and lemo juice. Quickly bring to a boil, then re duce heat and simmer, covered, unt fruit mashes easily, about 15 minutes.

Remove from heat and discard cinna mon stick. Purée fruit in a blende or food processor, mixing until ver smooth. (At this point you can chi purée, then freeze up to 7 months. T use, let thaw and proceed as follows.)

Return fruit mixture to pan and ad sugar to taste; blend in cornstarch past Cook, stirring, over high heat until mi ture thickens, about 5 minutes. Remov from heat and let cool slightly, Skim o and discard any foam. Add liqueur an half of the whipping cream; whisk ha the sour cream or yogurt with a wi whip before adding to soup, then whis to incorporate smoothly. Cover and chi soup until cold or as long as overnight.

With rotary beater, beat remaining whi ping cream until just thick enough t mound. Sweeten whipped cream, remai ing sour cream, or yogurt to taste wit powdered sugar and spoon into a sma bowl. Offer with powdered sugar to ad to each portion. Makes about 4 cups (or 5 servings).

Apricot Soup

Follow directions for Peach and Plu Soup using 1½ pounds **apricots,** pitte (omit peeling step), instead of peach and plums, and **apricot** or almond **queur** instead of orange liqueur. Increas **granulated sugar** to ¾ to 1 cup or taste. Makes about 4 cups.

Cherry Soup

Follow steps for Peach and Plum Sou using 1½ pounds **Bing cherries,** pitte (omit peeling step), instead of peach and plums. Use **kirsch** instead of t orange liqueur; reduce **granulated sug** to ¼ to ⅓ cup. Makes about 4 cups.

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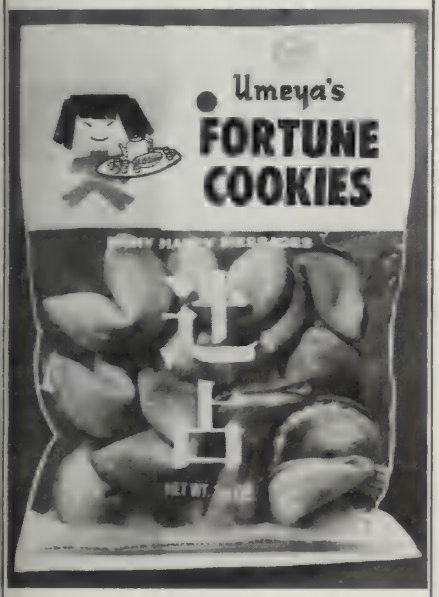

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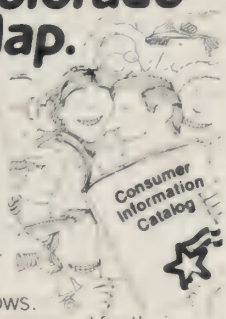

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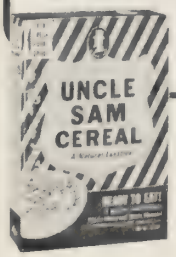

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1 package Lucca Cheese Ravioli or Tortellini
1 cup firmly packed fresh sweet basil
1/6 cup (approximately) olive oil
2 cloves garlic
1/2 cup fresh grated parmesan cheese
1/6 cup chopped pine nuts (optional)

Combine sweet basil and garlic in blender or food processor. Chop until fine. Remove. Place in bowl. Add cheese and oil. Mix by hand thoroughly until you have a thick smooth paste. Add pine nuts last.

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TERI SANDISON

Inside *crusty wedges of this calzone is a melted cheese, ham, and herb filling*

It's a pizza turnover . . . calzone

A variation of pizza, calzone has the same good flavors but encloses them in a turnover. The thin crust conceals rather than exposes the filling. This version of calzone brings together tastes new to the pizzeria: pungent goat cheese lends a decisive tang to melting mozzarella, prosciutto, and herbs.

Look for chèvre (goat cheese) in cheese shops, delicatessens, or the cheese section of many supermarkets.

Chèvre Calzone

- 1 package active dry yeast
- 1 cup warm water (about 110°)
- ½ teaspoon salt
- About 3 tablespoons olive oil or salad oil
- About 3½ cups all-purpose flour
- 12 ounces mozzarella cheese, diced
- 6 ounces chèvre cheese, diced
- ¼ pound thinly sliced prosciutto or cooked ham, cut in thin strips
- 2 cloves garlic, minced or pressed
- ¼ teaspoon *each* oregano, marjoram, and thyme leaves
- Cornmeal

In a mixer bowl, sprinkle yeast over the water and let stand about 5 minutes to soften. Stir in the salt and 2 teaspoons of the oil. Gradually beat in enough of the flour (2½ to 3 cups) to make a soft dough. Turn dough out onto a floured board and knead until smooth and no longer sticky, adding flour as needed. Turn dough over in a greased bowl. Cover with plastic wrap and let rise in a warm place until doubled, about 1 hour.

Meanwhile, in a bowl, mix mozzarella, chèvre, prosciutto, garlic, oregano, marjoram, and thyme.

Punch down dough and divide in half for large calzone or fourths for small calzone. On a lightly floured board, shape each portion into a smooth ball. With a floured rolling pin, roll large balls into 11-inch circles, small balls into 8½-inch circles. Brush each lightly with the remaining oil.

For large calzone, distribute half the filling over half of each dough circle; use ¼ of the filling for each small circle. Fold plain half of dough over filling, then press edges together. Roll ½ inch of pressed edges up and over, then seal and crimp.

With a wide spatula, transfer calzone to greased 12- by 15-inch baking sheets which have been sprinkled with cornmeal. Prick tops of each turnover with a fork; brush lightly with oil. Bake in a 450° oven until well browned, about 15 to 20 minutes for either size. Cut into wedges. Serves 4.

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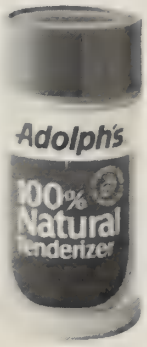

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STORE COUPON

Battle plan for a really big party

Months of planning are behind most successful big parties, including the ones reported on pages 84 to 89. Although their scale ranged from 50 to 800 participants, we found that each organizer faced the same considerations, from parking to cleanup. If you want to try large-scale entertaining, the following breakdown can help you plot the logistics.

The occasion and when

If the party is tied to a particular date, three months for planning is typical. Check conflicts with other major events that might affect guests, and allow a minimum of six to eight weeks' lead time to send out invitations.

At night, you need light and sometimes heat; during the day, if weather is warm, you may need sun protection for foods and guests. In some regions, late-afternoon winds need to be anticipated. Bug control can be a problem anytime.

The party location

The size of your group determines the space you'll need. Home gardens are favored, or you can take advantage of parks or the beach. If so, will you need a reservation? Will there be problems of intruding outsiders? What are the facilities (water, fire rings, tables, rest rooms), and how far must you carry things?

Regardless of the setting, how would you manage if it rained? If the party is very informal, umbrellas may suffice—or can you crowd people under eaves, or patio overhangs, or use the garage or carport?

Who's coming?

If the guests are old friends, they are likely to take care of themselves. But strangers or slight acquaintances may need ice-breaking devices such as name tags and games. Groups of more than a hundred often have a check-list to count heads.

The nitty gritty: what and how much to serve, how to cook, costs

Six menus are proposed on pages 84 to 89. For a very straightforward meat, vegetable, and starch menu, allow ¼ pound boneless meat or fish or ¾ pound bone-in-poultry, meat (such as ribs), or shellfish; about ¼ pound trimmed, ready-to-serve vegetable and about ⅓ pound cooked starch.

However, many menus don't conform to this basic plan, and most groups who worked with mixed dishes (casseroles, stews, soups) first tested meals both to evaluate the recipes and to estimate portion size. Most did not tackle quantity recipes, but prepared multiples of a dish. Testing also helps determine preparation steps, problems to avoid, equipment needed, storage (refrigeration, freezing), how to bring to serving conditions, (thawing, heating). Information then is noted on recipes for assistant cooks.

If you do all the cooking yourself, choose an easy-to-handle menu such as the buy-and-serve hot dog bash or the roast chicken and corn lunch. Neither puts stress on a single kitchen—nor does the cook-at-the-beach stew. But when a menu outpaces the equipment of a single kitchen, cooking often becomes a co-operative effort, as for the salad lunch and the hot and cold buffet. Many foods can be prepared partially or completely ahead by individuals working in small groups or independently at home.

Inexpensive resources for hired help were often teen-age family members or friends, or were found through nearby high schools or colleges. You can supplement cooking equipment with portable electric appliances (check your electrical capacity so as not to overload it); camp stoves and barbecues can also provide extra sources of heat. For refrigeration, choices range from ice chests to a rented refrigerated truck.

Also decide what to borrow, rent, or buy. For annual events, consider purchasing a few larger pieces to reuse through the years. You can look to inexpensive alternatives for serving containers: large baking pans camouflaged with leaves or ferns, big plastic garden pots or bowls, hollowed watermelons.

Another solution is to let the guests do part of the cooking. At the meatball contest, we were amazed by how much fun guests had cooking their own supper.

A repeated pattern we saw involved guest contributions that spared hosts the burden of some costs. For the beach party, each guest was asked to bring 1 pound of fish to add to the soup pot. Cooking contestants brought ingredients for their meatballs.

Since cost is a factor most of us have to live with these days, consider alternatives: if you can't afford lobster or steak, plan a good meal around chicken or spaghetti; borrow serving dishes instead o renting them.

Serving and seating

At most of the parties we attended, self service buffet was the choice.

With groups larger than 50, it's impor tant to have several access routes to th food. Arrange buffets so food can b reached from both sides or from all fou ends of the table. Ideally, allow on buffet table per hundred guests. Separat stations for desserts and beverages als reduce congestion. Service can be has tened by having a helper serve hard-to handle foods.

How will guests eat their meals—sittin or standing, at a table, from their laps? A the beach and vineyard parties, guest were prepared to sit on the ground. Fo less casual situations, large cloths an pillows offer inexpensive, more comfor able seating. Or rent or borrow table and chairs as needed.

For standing guests, choose foods—suc as hot dogs or sandwiches—that don require utensils. Dishes for lap mea need to be sturdy. Good-quality dispo able dishes are fine, but if you nee something stronger, you might even as guests to bring their own dinnerware, a for the beach bouillabaisse.

Have plenty of containers to take care o garbage; for parties of several hundre you might rent a dumpster from a ga bage collection service.

Other considerations: bathrooms, parking, security, music

To keep bathrooms organized, assig someone to check supplies regularly. you prefer to minimize traffic into th house, rent portable toilets from a sanit tion service.

Is there parking available for a larg number of guests? If it's limited, sugge guests carpool and remind them to lea a fire lane when parking on a narro road. For safety, notify the fire depar ment of your party.

When parking is inadequate, a parkin shuttle works best. Arrange to use shopping center parking lot, empty lo or generous roadside curbs for parkin then have a shuttle bus to transpo guests to the party site. To end the par effectively, set a closing time for th shuttle service. If you're using a bo rowed car, check with your insuran company on unowned vehicle coverag Also discuss burglary and robbery cove age with your agent. To direct parki and monitor security, consider hiring guard, off-duty policeman, or teen-ager

A high school or college music depar ment can find groups to provide li music.

Consider your neighbors: remember notify them of your event to minimi complaints; better yet, invite them, too

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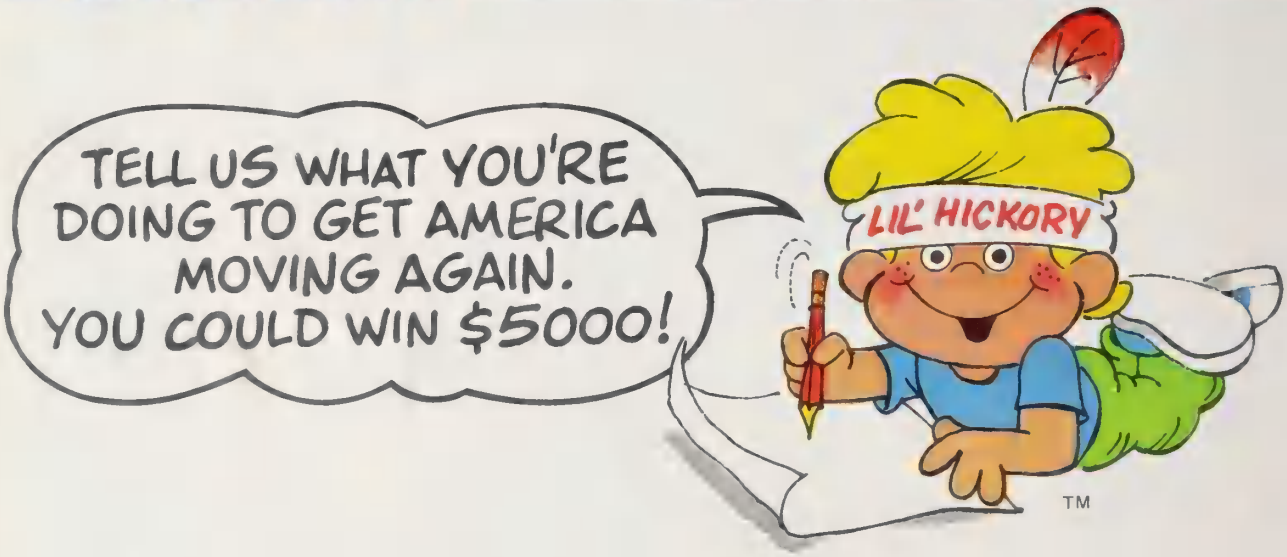

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2 All entries must be accompanied by proof of purchase from any Rath Black Hawk product. Enter as often as you wish, but each entry must be mailed separately. All entries and ideas become the property of Rath Packing Co., and none will be returned. All winners will be selected from among entries postmarked before October 23, 1982, and received by October 30, 1982. An independent judging organization whose decisions are final will select the prize winners. The odds of winning will be determined by the number of entries received. Limit of one prize per family or address. All 31 prizes (worth $25,000 total) will be awarded. Winners will be notified by mail.

3 Employees of Rath Packing Co. and its affiliates, subsidiaries, advertising, promotion and judging agencies, and the families of each are not eligible. Taxes on prizes are the sole responsibility of prize winners. All Federal, State and local regulations apply.

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All entries will be judged and prizes awarded based on the originality, timeliness and usefulness of each entrants ideas as well as grammar, spelling, and neatness of essay.

5 Winners will be required to verify truth of statements in their entries and sign an affidavit of eligibility and an advertising release form.

6 Contest void wherever prohibited, licensed, taxed or otherwise restricted by law. Contest limited to United States residents only.

7 For a list of the prize winners, send a separate self-addressed stamped envelope to: Rath Contest Winners, P.O. Box 509, Lake Forest, IL 60045.

Rath

DAVID STUBBS

Marinated *potato-mushroom salad goes well with barbecued ribs*

Potato salad . . . two new choices

It's likely potato salad was the precursor of barbecues instead of the outgrowth. After all, potatoes were standards long before pressed charcoal briquets. Potato salad, however, has not stood still; it continues to develop innovations of flavors, as these two candidates for summer menus prove.

For the first, potatoes and mushrooms are dressed with a dilled vinaigrette. In the second, lots of parsley and bits of onion accentuate the nutty sweetness of the potatoes.

Potato-Mushroom Salad

- 4 pounds thin-skinned potatoes, scrubbed
- Water
- 2 red bell peppers, seeded and chopped
- 1 cup chopped green onion
- 1 pound mushrooms, sliced
- Dill seed dressing (recipe follows)
- Salt

In a covered 5- to 6-quart pan, cook potatoes in boiling water to cover until tender when pierced. Cool, then peel if desired. Cut into ¼-inch-thick slices in a salad bowl. Add bell pepper, onion, mushrooms, and dressing. Stir gently to mix, and salt to taste. Cover and let stand for 2 to 3 hours; stir occasionally. Makes 10 to 12 servings.

Dill seed dressing. Combine 1 cup **salad oil,** ½ cup **white wine vinegar**, 2 to 3 cloves **garlic** (minced or pressed), 2 tablespoons **Dijon mustard,** 2 teaspoons **dill seed,** and ½ teaspoon **pepper.**

Parsley-Potato Salad

- 4 pounds thin-skinned potatoes, scrubbed
- Water
- 1 cup finely chopped parsley
- Onion cream dressing (recipe follows)
- Salt

In a covered 5- to 6-quart pan, cook potatoes in boiling water to cover until tender when pierced. Cool, then peel if desired. Cut into ¼-inch-thick slices in a salad bowl and add parsley and dressing. Stir gently to mix, and salt to taste. Cover and let stand for 2 to 3 hours; stir occasionally. Makes 10 to 12 servings.

Onion cream dressing. Combine 1 cup *each* **sour cream** and **mayonnaise,** 6 tablespoons **white wine vinegar,** and 1 large **onion,** finely chopped. □

Pour white curds *and amber whey into cheesecloth-lined colander. Catch whey in a pan and use for Indian dishes on following pages*

DAVID STU

Cut pressed cheese *into ½-inch cub for authentic Eastern-style vegetarian recip*

From India comes this cheese that's quick to make, very versatile

Sudha Irwin *presents Indian Cheese in three spicy dishes: a curry, with bright spinach, and with peas and tomatoes*

In India, cooks make a simple cheese in minutes by clotting boiling milk with lemon juice. The result is a mild, creamy-textured white cheese similar to our old-fashioned farmer's, pot, or hoop cheese. However, because the cheese is fresh and easy to shape, and because you can add seasonings to either the milk or the finished cheese, we find it extremely adaptable to our Western ways.

The mild flavor is compatible with sweet or spicy combinations. You can use the cheese cold or hot (it does not melt). It tastes fresh for up to two weeks in the refrigerator, or you can age it as long as a month at room temperature in oil and vinegar so it becomes smoother and slightly pungent.

Our basic recipe comes from Sudha Irwin, born and raised in the dairy-rich Punjab region of India. She also shares three traditional recipes that are well suited to Western tastes and make use of readily available ingredients. All are typical of a vegetarian diet in India, in which cheese makes a significant contribution of protein and calcium.

Whey, the clear amber liquid that is left when the milk clots, has a slightly tart flavor and is used in these dishes to pro-

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LAYERED SUMMER SALAD

- 2 cups shredded red cabbage
- 2 cups sliced carrots or cauliflowerets
- 1 medium cucumber, sliced
- 1 cup halved cherry tomatoes (about ½ pt.)
- 1/3 pound spinach leaves, torn into pieces (about 2½ cups)
- 3 slices bacon, crisp-cooked and crumbled
- 1 cup (8 oz.) Wish-Bone Lite Onion & Chive Dressing

In 2-quart salad bowl, layer all ingredients except bacon and dressing; top with bacon. Add dressing; cover and chill. Makes about 6 servings. Only 170 calories per serving.

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Fried Cheese. *Make Pressed Indian Cheese. Divide and shape into 16 triangles ¼ inch thick. Dip into 1 beaten egg, then into ¼ cup fine dry bread crumbs. Melt 2 tablespoons butter or margarine in a 10- to 12-inch frying pan on medium heat; add cheese and brown. Serves 4*

Cheese Dressing. *Make Pressed Indian Cheese. Cut into chunks and mix with 1¼ cups olive oil, ½ cup wine vinegar, ¼ cup minced onion, and 1 teaspoon dry rosemary. Use or cover and keep at room temperature up to 1 month; stir occasionally. Spoon over salad greens. Makes 2 cups dressing*

Spiced Cheese Spread. *Make Drained Indian Cheese, adding ¼ teaspoon each ground cinnamon and nutmeg along with the salt. Spread thickly on buttered and toasted raisin English muffin, bagel, or toast. Drizzle with honey. Eat for breakfast or as a snack. Makes 6 to 8 servings*

DAVID STUBBS

Chutney Cheese Spread. *Make Drained Indian Cheese, adding along with salt the seeds of 3 whole cardamom, cracked and coarsely crushed; ⅛ teaspoon each ground ginger, nutmeg, and cumin seed; 1/16 teaspoon cayenne. Mound in a bowl and top with ⅓ cup chutney. Sprinkle with chopped, salted pistachios or raisins. Spread on crackers. Serves 6 to 8*

Try Indian cheese as a spread, in salad dressing, fried for a main dish

vide added nutritional value. You can serve each of these dishes individually, or combine them—with additions of rice, yogurt, chutney, and a cucumber salad —to make an Indian dinner for 10 to 12.

The Indian Cheese with Spinach seems lighter than the curry or pea and tomato dishes. If you like, serve it with Western accompaniments of scrambled eggs and a rasher of bacon.

Starting on this page, our photographs and captions suggest other ways to use the cheese that depart from Indian cuisine. We propose it coated with crumbs and fried to serve as a main dish, as a new cheese for salad dressing, as a spicy spread topped with honey (as ricotta is eaten in Italy), flavored with Indian-style seasonings and topped with chutney for an appetizer, broiled with a coconut topping for dessert, and coated with cracked pepper and aged as a tangy cheese to serve with salad or crackers.

Indian Cheese, Drained or Pressed (*Paneer*)

- 2 quarts whole milk
- ½ teaspoon salt (optional)
- ⅓ cup fresh lemon juice

In a deep, heavy 6- to 8-quart pan over medium-high heat, combine milk and salt; cook, stirring occasionally, until milk comes to a full boil, 15 to 20 minutes (bottom of pan may scorch a little, but it's of no concern). Stir in lemon juice and leave on heat without disturbing while curd separates from the clear, amber whey—almost at once. Boil 2 minutes without stirring (milk will foam quite a bit), then remove from heat.

Line a colander with 3 or 4 thicknesses of cheesecloth (large enough to hang over sides of colander) that have been dipped in water and wrung dry. Gently pour curds and whey into colander (if desired, catch the whey in a container placed under the colander and use in the traditional Indian recipes that follow). Allow cheese to drain until most of whey is gone, about 5 minutes. Scrape cheese towards the center.

To complete the cheese, drain or press as follows, depending upon how you want to use it in these recipes.

For drained cheese, draw together corners of cheesecloth; twist to wrap cheese tightly. Turn over in colander; let rest at room temperature for 20 minutes.

For pressed cheese, fold cheesecloth securely over cheese to enclose, then invert onto a 10- by 15-inch rimmed baking pan. Set a 4- to 5-quart pan filled with water onto wrapped cheese; let stand about 30 minutes. Lift pan from cheese and unwrap; discard liquid.

Use cheese or wrap airtight and refrigerate up to 2 weeks. Makes 1¼ cups.—*S. I., San Francisco.*

Indian Cheese Curry (*Paneer Curry*)

Make **Pressed Indian cheese** (above); cut into ½-inch cubes and set aside. In a

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DAVID STUBBS

Broiled Coconut Cheese. *Make Pressed Indian Cheese; beat until creamy. Shape 6 cakes, 2 inches in diameter; place in 6- to 8-inch-square ovenproof dish. Top with mixture of ¾ cup each powdered sugar and shredded coconut, ¼ cup butter or margarine, 2 teaspoons lemon juice. Broil 6 inches from heat until golden. Eat for breakfast or dessert. Serves 6*

to 12-inch frying pan, melt 1 tablespoo **butter** or margarine with 1 tablespoo **salad oil** over medium-high heat.

Add 1 large **onion,** finely chopped, large cloves **garlic,** minced or presse and 2 teaspoons finely chopped **fre ginger.** Cook, stirring, until onions brov lightly, about 10 minutes.

Add 2 medium-size **tomatoes,** choppe 1 teaspoon *each* **cumin seed, grou coriander,** and **turmeric;** ¼ to ½ te spoon **cayenne;** and ¼ teaspoon **fenn seed,** crushed. Cook and stir until toma is very soft and no longer holds its shap about 10 minutes.

Stir in 1½ cups **whey** or water and b over high heat stirring until sauce loo homogeneous, 3 to 5 minutes. Mix i tablespoon chopped **fresh coriand** (cilantro) or parsley; **salt** to taste. Cov reduce heat to low, and simmer 20 m utes. Gently stir in Indian cheese cub Cook, covered, to warm cheese th oughly, about 3 minutes.

Accompany with 3 cups hot **cooked r** and about ⅓ cup coarsely chopp **salted cashews.** Spoon curry over r and top with nuts. Makes 4 servings.

Indian Cheese with Peas and Tomatoe (*Matar Paneer*)

Make **Pressed Indian cheese** (page 17 cut into ½-inch cubes and set aside.

Sweetened with honey and raisin syrup for a taste that's unforgettable.

Unprocessed wheat bran added for natural fiber.

4 whole grain cereals g Bran'nola Original a full-bo texture.

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Honest Bread

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10- to 12-inch frying pan, melt 1 table-
ɔoon **butter** or margarine with 1 table-
ɔoon **salad oil** over medium-high heat.

dd 1 large **onion,** finely chopped, and
ɔok, stirring, until onion browns lightly,
ɔout 10 minutes. Then add 1 large **to-**
ıato, chopped; 1 tablespoon chopped
esh coriander (cilantro) or parsley; and
ɜ teaspoon **pepper.** Cook and stir until
ɔmato is very soft, 5 minutes longer.

ir in 1 cup **whey** or water and boil over
gh heat until liquid is almost gone,
ɔout 3 minutes; **salt** to taste. Gently stir
½ cup **frozen peas** and cheese cubes.
educe heat to low and cook, covered,
warm cheese, about 3 minutes.

ccompany with 8 to 12 warm **flour**
rtillas or spoon sauce into 4 pocket
eads, to eat. Makes 4 servings.

ıdian Cheese with Spinach
aag Paneer)

ake **Pressed Indian cheese** (page 178);
ıt into ½-inch cubes and set aside.

emove and discard stems from 1 pound
inach; rinse leaves well. Place leaves,
th the water that clings to them, in a
to 4-quart pan. Cover and cook over
edium heat until spinach is wilted, stir-
ıg occasionally, about 7 minutes. In a
ender or food processor, whirl spinach
til puréed; set aside.

In a 10- to 12-inch frying pan, melt 1 tablespoon **butter** or margarine with 1 tablespoon **salad oil** over medium-high heat, stirring.

Add ½ teaspoon **cumin seed** and stir until lightly toasted, about 30 seconds. Add 1 large **onion,** finely chopped, and 2 large cloves **garlic,** minced or pressed, and cook, stirring, until onions brown lightly, about 10 minutes.

Stir in 1 large **tomato,** chopped; 1 **fresh green Fresno (hot) chili,** finely chopped (optional); 1 teaspoon **ground coriander;** ½ teaspoon **turmeric;** and ¼ teaspoon **cayenne.** Cook and stir the sauce until tomato is very soft, about 10 minutes. Add 1 cup **whey** or water and boil over high heat, stirring, until sauce looks homogenous, 3 to 5 minutes. Season to taste with **salt.**

Reduce heat to low, stir in puréed spinach, then gently mix in Indian cheese cubes. Cook, uncovered, just enough to heat the cheese, about 1 minute. Serve immediately (spinach discolors if held on heat), garnished with tomato slices or wedges, if desired.

Accompany with 8 to 12 warm **flour tortillas** or spoon the mixture into 4 pocket breads and top with ⅓ cup chopped **salted** or unsalted **almonds** and 1 cup **unflavored yogurt.** Makes 4 servings. □

DAVID [illegible]

Pepper Cheese. *Make Pressed Indian Cheese. Shape into 24 round 1-inch-thick cakes. Roll firmly in cracked pepper. Drop into a mixture of 1¼ cups olive or salad oil, ½ cup white wine vinegar, 2 teaspoons dry basil. Cover; keep at room temperature at least 2 days or up to 1 month. Turn container over weekly. Makes 24*

Everyone brings a fish for beach party bouillabaisse

French fishermen originally made bouillabaisse with the unsold fish of the day. The variety of fish gave the stew a full rich flavor. Here Kathie Cooper and Françoise Kirkman designed a beach party (page 84) around that idea, asking each guest to bring 1 pound of fish to add to the pot.

The recipe is for 10 to 12 servings. For the beach party, it was multiplied by four and cooked in a 50-quart pot to feed about 50.

If you don't have such a large kettle, use several smaller pots. To estimate the number and size of pans needed, figure each batch of soup makes 10 to 11 quarts. For more mayonnaise, don't make more than a double recipe at a time. Both the garlic mayonnaise and toast rounds can be made at home.

Bouillabaisse at the Beach

In a 12- to 14-quart kettle, pour in ¼ cup olive oil or salad oil. Add 6 medium-size **leeks,** sliced (white part only); 2 large **onions,** chopped; and 2 large cloves **garlic,** minced or pressed. Sauté, stirring, until onions are soft. Add 2 large cans (1 lb. 12 oz. *each*) **tomatoes** (cut chunks) and their liquid. Also add 6 cups (1½ liters) **dry white wine,** 1 qu **clam juice,** 1 quart **regular-stren chicken broth,** 3 **bay leaves,** 1 teaspo **thyme leaves,** ½ teaspoon **grated oran peel,** ¼ teaspoon **fennel seed,** (crushe and ⅛ teaspoon **cayenne pepper.** Br to boiling.

Wrap 1 cleaned and scaled small (2 t lbs.) **whole rockfish** (optional) in cheesecloth sling. (Cut off head and t if necessary to fit pan; discard or wrap another cheesecloth sling if used to fla broth.) Lower whole fish into the boili broth. Cover and simmer gently for minutes. Then add 20 to 30 **clams in shell,** scrubbed clean, and 2 to 3 pour (5 lbs. if the whole rockfish is not use assorted **fish fillets or steaks** (½ to inch thick), such as lingcod, rockfish, h ibut, turbot, or sea bass. Cover, bring ba to simmering, and let cook gently for minutes.

Add 1 pound **squid,** cleaned and coars chopped (optional); cover and simm until the clams pop open and fish is longer translucent in thickest part wh prodded apart, about 5 minutes long Slide the pan to side of the fire keep warm.

Lift out the whole fish, if used, in t cheesecloth sling (discard head and ta and lay on a shallow baking pan rimmed platter. Carefully remove discard cheesecloth. With slotted spo or wide spatula, lift out remaining fi and place alongside whole fish. Garni with **lemon wedges** and **parsley sprigs.**

Have guests spread **toast rounds** wi **garlic mayonnaise** (recipes follow) a set in their soup bowls, then choose assortment of seafood and ladle the h broth over all. Serves 10 to 12.

Toast rounds. Thinly slice 1 long bague (about 8 oz.) and arrange in a single lay on baking sheets. Place in a 350° ov and bake until lightly toasted, about minutes. Let cool; use or package airtig as long as overnight.

Garlic mayonnaise. In a blender or fo processor, place 1 egg or 3 egg yolks, tablespoon white wine vinegar or lem juice, 1 teaspoon Dijon mustard, and to 6 cloves garlic. Whirl until w blended. On high speed, add 1 cup sal oil or olive oil—just a few drops at a tin at first, then increasing to a slow, stea stream. Add liquid hot pepper seasoni to taste. Use or cover and chill as long 2 weeks. Keep cold until serving. Mak 1½ cups.

Cure 81® Golden Praline Ham

Golden Praline Ham

1-16 oz. jar apricot-pineapple preserves
½ cup brown sugar
Pecan halves and maraschino cherries for garnish

Combine apricot-pineapple preserves with brown sugar and heat in saucepan, stirring well. Spread mixture over Cure 81 Ham for last half hour of baking. When ham is finished, garnish with alternating diagonal rows of pecan halves and cherry halves.

Cure 81® Ham. Dependability worth paying for.

The California Mexicombo

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Start with crunchy California Ripe Olives, sliced or chopped, and follow the Lawry's seasoning recipe directions for crisp Tacos stuffed with spicy beef, saucy Enchiladas or hearty Beef and Bean Burritos.

So, mix in some Mexico tonight (or today for lunch!). The result is real Mexican flavor with a flair your whole family will enjoy.

LAWRYS FOODS INC.

California Olive Industry

Facts about our chips and your shortstop

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nd nutrition that you hould know.

She's a hero. Bottom of the seventh, tie e, two outs, and she hits a homerun. Now s home. Hot, happy, and humble, but most ll hungry. What will you do if she asks for ato chips?

How will you feel as a mother, knowing hard you try to get your family at the right things?

The more you know, the better you'll feel.

Right off, we're going to tell that our snack chips are not answer to total nutrition, but y can be part of it.

No food provides all the rients in all the amounts ired for good health. That's a balanced diet's important. l when your family enjoys our s as part of that balanced , they're getting beneficial ients in every ounce.

ke Lay's® Brand Potato Chips for example.

A one ounce serving (about 0 good-sized chips) is a good ce of Vitamins C and B_6. In total, Lay's to Chips contain at least 13 widely gnized nutrients. Because they're sliced fresh potatoes and quick-cooked to help the natural nutrients in.

Kids don't watch calories, but you do.

That same one ounce serving contains 150 Calories. That's a surprising figure to of people. They expect much more from otato chips.

So even if your family eats more than one e, and sometimes that's easy to do, they'll get fewer calories than you thought.

Lay's

Potato Chips

NUTRITION INFORMATION

(Per Serving) Serving Size 1 ounce. Number of Servings 8

Calories	150	
Protein	2	grams
Carbohydrate	14	grams
Fat	10	grams
Cholesterol* (0 mg/100 g)	0	milligrams
Sodium (925 mg/100 g)	260	milligrams
Potassium (720 mg/100 g)	205	milligrams

Percentage of U.S. Recommended Daily Allowances (U.S. RDA)

Protein	2
Vitamin A	**
Vitamin C	10
Thiamine	2
Riboflavin	**
Niacin	4
Calcium	**
Iron	2
Vitamin B_6	10
Phosphorus	4
Magnesium	4
Copper	6

*Information on cholesterol content is provided for individuals who, on the advice of a physician, are modifying their total dietary intake of cholesterol

**Contains less than 2% U.S. RDA for this nutrient

What about salt?

One ounce of Lay's Potato Chips has less sodium than a lot of foods you'd never think of. Like a ½ cup of cottage cheese. Two slices of bread. Or an 8 ounce glass of tomato juice. But it's easy to explain. Potato chips *taste* salty because the salt is on the outside. The same goes for our corn chips. And they have even less salt.

The facts about cholesterol and preservatives.

The regular flavor Frito-Lay chips shown below contain no cholesterol. None. Because they're fried only in vegetable oils that are high in polyunsaturates. The chips flavored with cheese or sour cream are fried in the same oils but contain the small amount of cholesterol that comes from real cheese and sour cream.

And there are no preservatives in any of these chips, regular or flavored.

All this is on the back of the bags. No one said we had to have nutrition labeling. But we like to play fair.

Frito Lay®

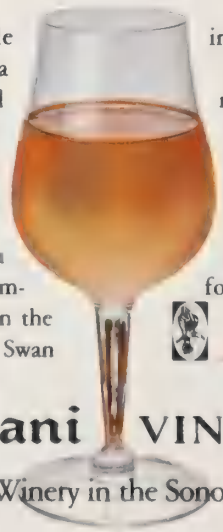
GOOD THINGS TO KNOW ABOUT GOOD THINGS TO EAT.

For more information about nutrition and our chips, write: Frito-Lay P.O. Box 35034 Dallas, TX 75235

"EYE OF THE SWAN"

The most versatile wine in America is a white wine produced from the red-skinned Pinot Noir grape. The juice is quickly separated from the skins, allowing just a blush of color that resembles the coppery hue in the eyes of the Australian Swan in our family's aviary. "Eye of the Swan" may be served chilled with chicken or fish, yet has enough body and flavor to complement heartier dishes. It is truly a wine for all occasions.

Sam J. Sebastiani



Sebastiani VINEYARDS

"A Family Winery in the Sonoma Valley"

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DARROW M. WA

Cool and fresh, *berry-topped ricotta cheesecake is attractive summer dessert*

Fresh berry and cheese torte

Crowned with fresh berries, this torte a delightful company dessert.

A cinnamon-spiced crust supports a creamy, chilled ricotta cheese lay flecked with chocolate and lemon pe For topping, you choose from or co bine whole berries such as blueberri raspberries, or blackberries.

Ricotta Cheese Torte with Fresh Berri

- 1 envelope unflavored gelatin
- ¼ cup milk
- 2 cups (16 oz.) ricotta cheese
- 1½ cups unsifted powdered sugar
- 1 cup whipping cream
- 3 teaspoons *each* grated lemon peel and grated semisweet chocolate
- Cinnamon cooky crust (recipe follows)
- 2 cups berries (suggestions precede
- ¼ cup apple jelly, melted (optional)

In a pan (1 qt. or smaller), sprinkle gelatin over milk and let stand 5 minutes soften. Stir over medium heat until simmering; remove from heat.

In a large mixer bowl, beat cheese a powdered sugar on medium spe Slowly add cream. Stir in gelatin m ture, lemon peel, and chocolate. P into crust, cover, and chill until set least 2 hours or as long as overnight.

To serve, arrange berries on top. If sired, spoon melted jelly over berries glaze. Makes about 10 servings.

Cinnamon cooky crust. Combine cups crushed **vanilla wafers,** 1 teaspo **ground cinnamon,** and ¼ cup (⅛ melted **butter** or margarine. Pat on b tom of a 9-inch cheesecake pan w removable bottom. Bake in a 350° o until golden, 10 to 12 minutes; cool.

Pour in the Eagle Brand for...

Fresh 'n' Fruity Ice Cream–lickety-split!

Here's the scoop. Nothing beats fresh fruit ice cream on a hot summer's day. Except creamy fresh 'n' fruity ice cream you make yourself—without an ice cream maker!

All you need is the dessert maker—Eagle® Brand Sweetened Condensed Milk—along with your favorite fruit and a few simple ingredients.

Eagle Brand is the special precooked blend of milk and sugar that makes dozens of luscious desserts deliciously quick and easy.

Try one flavor—or several! But remember, fresh 'n' fruity ice cream is so delicious, it tends to disappear "berry" fast!

Easy Homemade Strawberry Ice Cream

(Makes about 1½ quarts)

3 egg yolks*

1 (14-ounce) can Eagle® Brand Sweetened Condensed Milk (NOT evaporated milk)

1 teaspoon vanilla extract

½ cup chopped strawberries

2 cups (1 pint) whipping cream, whipped

2 cups fresh or unsweetened frozen strawberries, mashed or pureed (1 cup)

In large bowl, beat egg yolks, stir in Eagle Brand, vanilla and chopped strawberries. Fold in whipped cream. Pour ⅓ mixture into aluminum foil-lined 9x5-inch loaf pan or other 2-quart container. Spoon ⅓ mashed strawberries on top. Repeat layering, top with strawberry mixture. Swirl with knife or spatula. Cover, freeze 6 hours or until firm. Scoop ice cream from pan, or peel off foil and slice. Return leftovers to freezer.

Blueberry: *Omit vanilla and chopped fruit. In large bowl, beat egg yolks; stir in Eagle Brand and 1 teaspoon grated lemon rind. Fold in whipped cream. Proceed as above, layering with 1 cup pureed blueberries. Freeze as above.*

Peach: *Omit vanilla. In large bowl, beat egg yolks; stir in Eagle Brand, 1 cup mashed peaches, ½ cup chopped peaches and ¼ teaspoon almond extract. Fold in whipped cream. Freeze as above.*

*Use only Grade A clean, uncracked eggs.

the dessert maker

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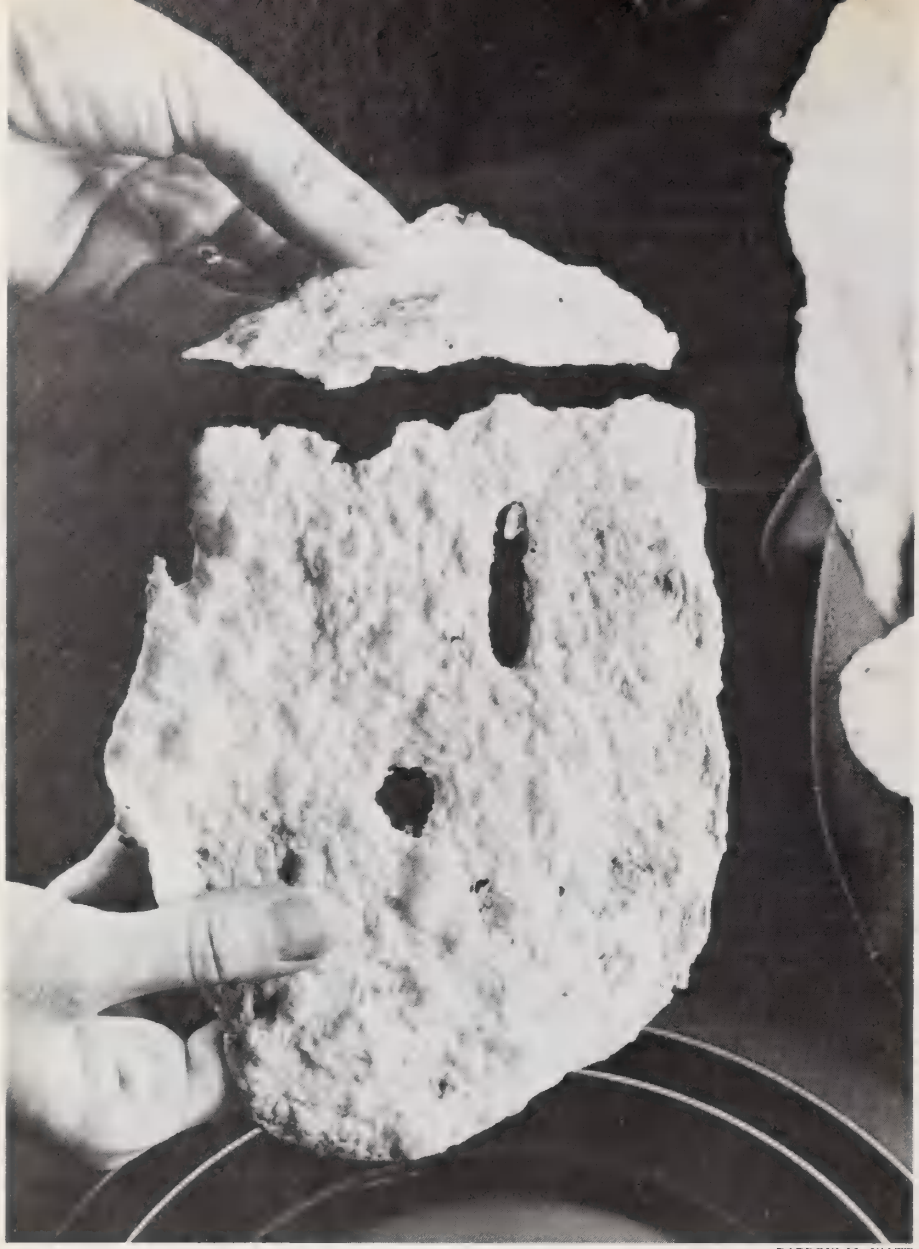


DARROW M. WATT

Each piece *has a different shape, but all have the same toasted onion flavor*

Crispy flatbread. It's easy with a pasta machine

Feeding dough *through rollers of a pasta machine makes quick work of rolling paper-thin flatbread*

Hand-rolling flatbread is a long and tedious process. So is making pasta by hand. But if pasta can be rolled by a machine, reasoned Heather Degen of Sacramento, why can't flatbread? So she tried it, and it worked. She fed pieces of her flatbread dough through the smooth rollers of her pasta machine to quickly and uniformly flatten them into long, paper-thin pieces.

Crisp like a cracker, the irregularly shaped pieces of flatbread owe their distinctive flavor to fresh onions, slow-cooked until sweet and mellow. Serve the flatbread plain or with butter, to accompany soup, salad, or a glass of wine before dinner.

If you don't have a pasta machine, flatten each piece of dough directly on a lightly greased rimless baking sheet (several will fit on one sheet). With a floured rolling pin, roll out dough as thinly as you can to make irregularly shaped pieces no more than ⅛ inch thick. Bake as directed below.

Pasta Machine Onion Flatbread

- 2 tablespoons *each* olive oil and butter or margarine
- 2 cups finely chopped onion
- 2 to 2¼ cups all-purpose flour
- 1 teaspoon salt
- About ⅓ cup water

In a 10- to 12-inch frying pan over medium-low heat, combine the oil and butter. When butter melts, add the onions and cook, stirring often, until onions are very soft, about 15 minutes. Remove from heat and let cool.

In a bowl, stir together 1½ cups of the flour and the salt. Gradually mix in onions and enough of the water to moisten the dry ingredients and form a soft dough.

Turn dough out onto a board coated with about ¼ cup of the remaining flour and knead until smooth; dough will be moist but not excessively sticky. Divide into 6 equal pieces and shape each into a smooth ball. Set balls slightly apart on the floured board; do not cover.

One at a time, slightly flatten each ball and dust with flour. Feed dough through the smooth rollers of a pasta machine set at the widest setting. Rotate the piece a quarter turn and feed through the machine again to make a wide strip. If dough becomes sticky at any time while rolling, lightly flour both sides.

Set rollers one notch closer and feed dough through the machine twice more. If the piece becomes too long to handle easily, cut in half and roll each separately; set section you are not rolling on floured board. Do not worry about small holes in dough.

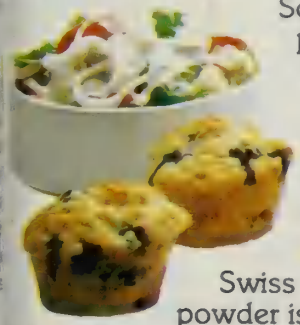
Since pasta machines differ, you may be able to advance the space control on the rollers up one more notch. Try feeding a section of the rolled dough through again, but if it tears excessively or gets too thin, return rollers to previous setting. Gather torn dough up into a ball and reroll as directed above. Place pieces of rolled dough on lightly greased baking sheets so they don't touch.

Bake in a 400° oven for 10 to 12 minutes or until lightly browned and crisp. Transfer to wire racks to cool. Serve or wrap airtight in foil and store at room temperature up to 2 days. If desired, recrisp on baking sheets in a 350° oven, uncovered, for 5 minutes; let cool before serving. Makes about 16 pieces of flatbread.—*H. D., Sacramento.*

This buttermilk spoils.

This buttermilk doesn't.

New Swiss Miss All Purpose Buttermilk powder stays fresh—unrefrigerated—for a full year. Liquid buttermilk spoils within three weeks. So with Swiss Miss Buttermilk powder in your pantry, you don't have to worry about spoiled buttermilk—or spoiled dinner plans. Swiss Miss Buttermilk powder is made with real cultured buttermilk. So it's every bit as good as liquid buttermilk for baking, cooking, and salad dressings. You'll find it in your grocer's baking section.



Swiss Miss Buttermilk powder is as easy to use as it is to keep on hand. Just mix it with your dry ingredients and add water as directed with liquid ingredients.

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20¢ **STORE COUPON** 20¢

You'll find it in your grocer's baking section

Be patient with tongue... hot or cold, moist and tender

A stylish presentation *for simmered tongue, sliced in a lively tomato and caper sauce. Use an energy-efficient pressure cooker to cut cooking time*

TERI SANDI

Time is the ingredient required to bring fresh tongue to tender succulence. Slow simmering may take 3 to 4 hours, depending on the size of the tongue. Or you can use a pressure cooker, a tool particularly suited for cooking this economical but firm-textured cut: it reduces preparation time by as much as a third, saving energy as well. We give both techniques.

Either way, moist and tender tongue is good hot or cold, or can be taken one step further and served with a tomato and caper sauce or marinated in a mustard vinaigrette.

Simmered Beef Tongue

- 1 fresh beef tongue, 2½ to 3 pounds
- 1 medium-size onion, quartered
- 2 large stalks celery, sliced
- 2 medium-size carrots, sliced
- 1 bay leaf
- ½ teaspoon *each* salt and whole black pepper
- 2 cups dry white wine (or 1 cup *each* water and regular-strength beef broth)

Pressure-cooker method. Rinse tongue well and place in a 4-quart pressure cooker. Add the onion, celery, carrots, bay, salt, pepper, and wine. Bring cooker to 10 pounds pressure, following the manufacturer's directions, and cook for 1 hour.

Reduce pressure under cold running water, then open pan. Lift out tongue; when cool enough to handle, peel and discard exterior skin. Cut away any small bones, fat, and gristle at base of tongue.

Top-of-range method. Rinse tongue well and combine in a 4- to 5-quart kettle with onion, celery, carrots, bay, salt, pepper, and wine. Bring to a boil over high heat; cover, reduce heat, and simmer until meat is very tender when pierced, about 3 hours. Lift out tongue, then skin and trim as directed.

You can slice and serve the tongue hot or cold or use as directed in either of the two following recipes. Serves 6 to 8.

Beef Tongue in Tomato-Caper Sauce

Cut hot **Simmered Beef Tongue** into slices about ¼ inch thick and arrange overlapping on a rimmed serving plate; keep warm.

Pour **cooking stock** through a wire strainer, discarding vegetables and seasonings. Return stock to cooker or kettle and boil, uncovered, over high heat until reduced to 1 cup (or add water or broth to make 1 cup). Add 3 tablespoons **white wine vinegar,** 4 **medium-size tomatoes** (peeled, seeded, and chopped), 1 **green onion** (chopped), and ½ teaspoon **tarragon leaves.** Boil, stirring, until tomatoes are very soft and mixture is reduced to 2 cups, about 10 minutes.

Pour mixture into a blender or food processor and whirl until smooth; return to cooker or kettle. Bring to a boil, add ¼ cup (⅛ lb.) **butter** or margarine in one lump, and stir until melted and blended into sauce. Add 2 tablespoons drained **capers,** then spoon sauce around (but not over) the sliced tongue.

Garnish with thin **lemon slices** and several blanched **green onions.** (Trim root, stem, and outer layer from green onion, then blanch: immerse a few at a time in boiling water just until green ends are limp, about 20 seconds; plunge into water to cool.) Makes 6 to 8 servings.

Beef Tongue Vinaigrette

Slice hot **Simmered Beef Tongue** thinly as possible and place in a shallow bowl; reserve **cooking stock** for other uses, such as soup.

In a small bowl, combine, ¾ teaspoon **pepper,** 1 tablespoon **Dijon mustard,** ¼ cup **distilled white vinegar,** and ¾ cup **olive oil** or salad oil. Pour over sliced tongue and let stand at room temperature at least 30 minutes before serving. **Salt** to taste. If made ahead, cover and chill as long as 2 days; let come to room temperature before serving.

Present tongue and vinaigrette as part of an antipasto tray for a first course, or as a light entrée, or to make into sandwiches. Serves 6 to 8.

Bathed in vinaigrette, *sliced tongue becomes an appetizer with vegetables*

"Our guests think it's super. And I can even make it after work!"

When dinner guests raved about this recipe that was prepared after one of her busy days at work, Mrs. Linda Baltich knew she had a winner. Linda, a metallurgical engineer from Georgetown, Colorado, created "Wild Rice Chicken Casserole" with French's Hollandaise Sauce Mix. And, she won a "French's Prize Recipe Award" for turning ordinary chicken into a really special dish. You'll find original, prize-winning recipes from creative cooks everywhere on the back of each French's Prize Recipe Sauce, Gravy and Seasoning Mix package.

Linda Baltich's Wild Rice Chicken Casserole

1 package (5 oz.) long grain and wild rice
½ cup chopped green onions
⅓ cup sliced mushrooms
1 tablespoon butter or margarine
1 envelope French's Hollandaise Sauce Mix
⅔ cup water
2 cups diced cooked chicken or turkey
1 package (10-oz.) frozen broccoli, thawed and drained

Prepare rice following package directions. Cook onions and mushrooms in butter in small saucepan. Add sauce mix and water; cook, stirring, until thickened. Combine rice, chicken, and broccoli in greased 2-quart casserole. Spoon on sauce. Bake, covered, at 350° for 35 minutes, until hot. 4 to 6 servings.

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For cooking that could win a prize.

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Making an ice idea better

DAVID STUBS

Slushy coffee ice *is topped with ice cream, whipped cream*

Icy slush... Italia[illegible] call it granita

Bittersweet and cool describes this [illegible] freshing beverage that combines fr[illegible] coffee and vanilla ice cream. The fr[illegible] coffee, spiked gently with a liqueu[illegible] beaten to an icy slush (Italians ca[illegible] *granita*), then topped with ice cream [illegible] whipped cream. You imbibe this [illegible] erage with both spoon and straw.

Caffè Granita

- 2 cups strong coffee, room temperature or cold
- ½ cup coffee, orange, or almond liqueur
- About 1 pint vanilla ice cream
- 1 to 1½ cups sweetened whipped cream (optional)
- 4 chocolate covered coffee beans o[illegible] coffee-flavored candies

In a medium-size bowl, stir together [illegible] fee and liqueur. Pour into 1 or 2 ice c[illegible] trays. Freeze until solid, about 4 ho[illegible] when hard, remove cubes from trays [illegible] store airtight in freezer up to 1 mont[illegible]

To serve, whirl coffee cubes in a ble[illegible] or food processor until slushy (1 [illegible] minutes), stopping occasionally to [illegible] Pour equal portions into four 8-o[illegible] glasses. To each glass, add 1 or 2 sc[illegible] of ice cream; top with about ¼ [illegible] whipped cream and 1 chocolate-cov[illegible] coffee bean. Makes 4 servings.

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Bernstein is about to become a household word in Italian for four delicious reasons:

Italian with Cheese. A subtle and satisfying blend of mozzarella, Parmesan, Romano, and Gorgonzola cheeses.

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No unnatural colors.

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Herbs and spices from around the world.

The purest oils and vinegars humanly possible.

And a taste so fresh and honest, you'll be tempted to claim you mixed it up yourself.

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Nobody, but nobody, lets these dressings pass without comment.

People who ordinarily pick at their salads will eat with Italian gusto.

And gourmets will beg for your secret.

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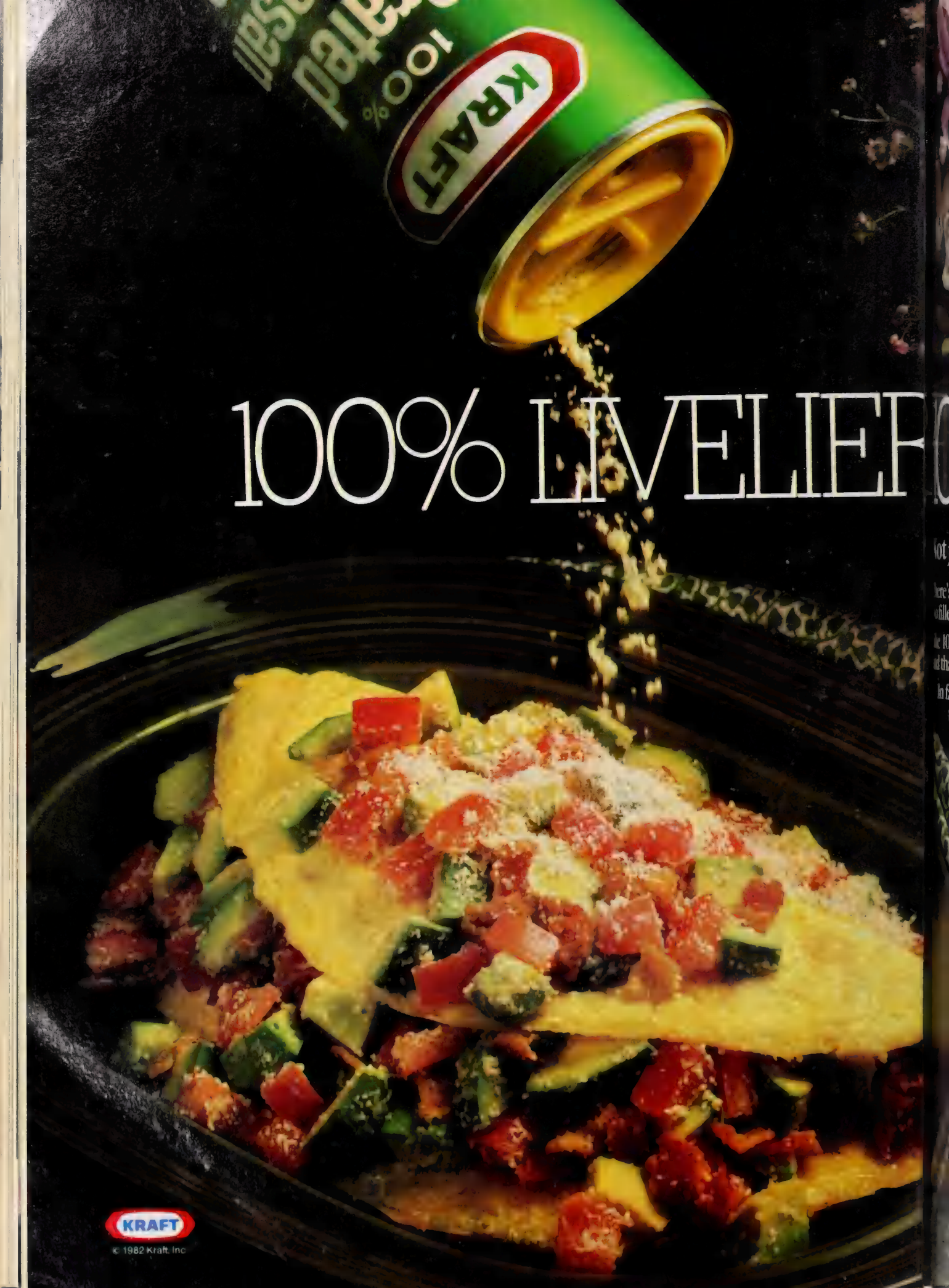
The results will shake you up.

As for your Italian relatives and friends, you can shake them up too. Just tell them you didn't make it yourself.

BERNSTEIN®

If we won't compromise, why should you?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100% PARMESAN

Not just any grated makes an omelette taste this great.

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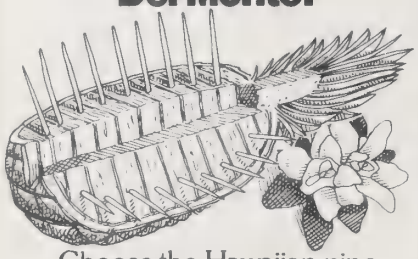
Look for it at participating grocers, or write Kraft at: "100% Livelier Brunches and Lunches" cookbooklet, P.O. Box 824, South Holland, Illinois 60473.

You'll see grated toppings are one thing. But Kraft is 100% great.

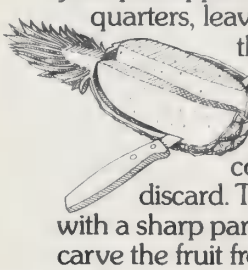
Del Monte

The less you know about fresh pineapple, the more you need Del Monte.



Choose the Hawaiian pineapple that's ripe when you see it. And ripe when you serve it. Every time. Choose Del Monte. Ripe now.

Here's a fast and fun pineapple presentation. Simply cut your pineapple into four quarters, leaving a bit of the crown on each. Trim off the core and discard. Then, with a sharp paring knife, carve the fruit from the rind.



Next, cut both lengthwise and crosswise to create bite-size pieces. Insert cocktail pick "paddles" and serve.

© 1982 Del Monte Corporation

TERI SANDISON

Hot off the griddle, *Japanese pancakes with shrimp and vegetables are topped with teriyaki sauce and green onion for brunch. A Western variation includes sauerkraut, chicken, and salami*

Japanese pancakes hot off the griddle . . . brunch or supper

From teppan grills on the street and in specialty restaurants in Japan comes a pancake called *okonomiyaki.* Ideal for brunch or supper, the pancake is made from a batter of eggs, flour, and water laced with chopped cabbage, green onion, and meat or fish. We give a traditional recipe as well as a tangy Western version.

For best flavor and texture, okonomiyaki should be freshly made, cooked at the table using an electric griddle or frying pan, or a tabletop electric or gas burner with a frying pan. Have batter and toppings at hand, then cook two small or one large pancake per serving. Cut the large pancake in wedges if you want to serve everyone simultaneously.

Ingredients for traditional okonomiyaki include items that may require a visit to an Oriental market: pickled ginger, dried shrimp, dried fish shavings, tiny flakes of seaweed, and sake. A garnish of raw egg yolk is optional.

The Western variation mingles sauerkraut, chicken, and salami and is served with a mustard sauce.

Japanese Brunch Pancake
(*Okonomiyaki*)

- 1⅓ cups water
- 4 eggs
- 2 cups all-purpose flour
- 1⅓ cups finely chopped green cabbage
- 1⅓ cups chopped green onion, including some tops
- Traditional or Western additions (ingredients follow)
- Salad oil
- Teriyaki sauce or Western mustard sauce (recipes follow)
- 6 to 12 egg yolks (uncooked), option
- Dried fish shavings (*bonito*), optional
- Prepared seaweed (*aonori*), option

In a large bowl, beat water and eggs w a fork. Add flour and stir until smoo Mix in cabbage, ⅓ cup of green onio and traditional or Western additions.

Cook the pancakes at the table on electric griddle, in an electric frying p or in a 10- to 12-inch frying pan on p able tabletop cook unit. Turn heat medium-high; lightly oil cooking surfa

To make individual pancakes, spoon cup of the batter for each pancake o

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TERI SANDISON

Traditional version *of Japanese pancake is served with raw egg yolk. Other toppings include prepared seaweed*

hot oiled pan or griddle and spread to form 5-inch circles. Make as many pancakes at a time as will fit cooking surface without touching. Cook until bottoms are golden and tops begin to dry, about 3 minutes; turn over with a wide spatula. Generously coat surface with teriyaki sauce or Western mustard sauce. Sprinkle each pancake with an equal portion of remaining green onion; if you use egg yolk, arrange onions in a circle around edges of each pancake and slip one yolk into center. When pancake bottoms are golden, transfer to individual plates.

Accompany traditional-style pancakes with dried fish shavings, prepared seaweed, and teriyaki sauce. Serve mustard sauce with Western-style pancakes. Makes 12 pancakes.

To make large pancakes, spoon ⅔ cup of the batter for each pancake onto hot oiled pan or griddle and spread to form 8-inch circles. Cook until bottoms are golden and tops begin to dry, about 3 minutes; turn over with a wide spatula. Generously coat surface with teriyaki sauce or Western mustard sauce. Sprinkle each pancake with an equal portion of the remaining green onion; if you use egg yolk, arrange onions in a circle around edges of each pancake and slip one yolk into center. When bottoms are golden, cut pancake through yolk into sixths and transfer onto individual plates.

Accompany traditional-style pancakes with dried fish shavings, prepared seaweed, and teriyaki sauce. Serve mustard sauce with Western-style pancakes. Makes about 6 pancakes.

Allow 2 small or 1 large pancake per serving.—*K. E., San Francisco.*

Traditional additions. Soak ⅔ cup dried **shrimp** in cold **water** for 20 minutes; use small cooked shrimp. Drain and chop in ⅔ cup chopped skinned and boned raw **chicken breast** and 4 tablespoons **slivered pickled ginger** (*shoga*).

Western additions. Stir together ⅔ cup *each* **sauerkraut,** drained; chopped skinned and boned raw **chicken breast** and slivered **salami.**

Teriyaki sauce

In a 1- to 2-quart pan, mix 3 tablespoons **sugar** and 2 teaspoons **cornstarch** until smooth; add ½ cup **sake** or dry sherry and ¼ cup **soy sauce.** Place on high heat and stir constantly until mixture boils and thickens. Pour into a serving bowl; use hot or at room temperature.

Western mustard sauce

In a small bowl, stir together ½ cup **mayonnaise** and 3 tablespoons **Dijon mustard.** Spoon into a serving dish. Serve or cover and chill as long as overnight.

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DARROW M. V

Ryan offers Dad *first choice from a worth-waiting-for platter of grilled mustard beef ribs, corn, and on*

JUNE MENUS

Barbecued ribs for Dad, ham-and-egg burrito for breakfast, Greek moussaka, hot or cold, for company

Everyday and special-occasion meals for the family, are featured in our menus for June. With summer on the way, you may want to serve them outdoors.

For Dad's special day, meaty beef ribs soak in a tangy marinade, then are grilled along with chunks of fresh corn and onion halves.

In most active families, some mornings call for eating breakfast in shifts, and in a hurry. Even so, there can be an element of surprise, as with the egg burrito in our second menu. A flour tortilla is used to hold an egg, ham, and cheese filling. These packets go together quickly, one at a time, in a frying pan. The combination also works well in camp for a no-fuss but fun outdoor breakfast.

Moussaka is known as the great Middle Eastern casserole. Here it takes on a new look—portions are cooked individually, each using a thick slice of baked eggplant as the container. The moussaka is easy to manage for company, and it is good served hot, or at room temperature, perhaps on the patio or terrace.

A barbecue for Dad

Before grilling, douse corn and onions with the mustard mixture in which the beef ribs have marinated. Make a favorite shortcake, or serve berries and cream on slices of pound cake.

Grilled Mustard Beef Ribs
Grilled Corn and Onions in Skins
Hearts of Romaine with Creamy Dressing
Shortcake with Fresh Blackberries

For the best flavor, marinate the ribs overnight, or at least all morning. If you like warm shortcake, have the ingredients ready to mix and bake a few minutes before the ribs are done.

You'll want a moderately hot bed coals for the beef, so measure and ig briquets as the recipe specifies.

To make romaine hearts, cut a l head lengthwise into 6 wedges. Breal coarse outer leaves (trim tops to rec portion size, if desired, and reserve other salads). Rinse wedges and chi crisp. Pour dressing (yours or purcha on to serve.

Grilled Mustard Beef Ribs

- 5 to 6 pounds (1 lb. per person) individual meaty beef rib bones
- Mustard-wine marinade (recipe follows)
- 5 or 6 unpeeled onions (2½ to 2¾ inches in diameter), cut in half crosswise
- 5 or 6 ears corn, husked and cut or broken into thirds crosswise

Place ribs in a heavy-duty (or do thickness) large plastic bag; rest bag

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California SummerFruits™

CALIFORNIA FRUIT ICE CREAM

- 1 envelope Knox® Unflavored Gelatine
- ½ cup cold milk
- ½ cup milk, heated to boiling
- 3 cups chopped unpeeled fresh California peaches, plums or nectarines
- ¾ cup sugar (Use more or less according to desired taste.)
- ¼ teaspoon vanilla extract
- 2 cups (1 pt.) whipping or heavy cream, whipped

In 5-cup blender, sprinkle Knox Unflavored Gelatine over cold milk; let stand 3 to 4 minutes. Add hot milk and process at low speed until gelatine is completely dissolved, about 2 minutes. Gradually add fruit, sugar and vanilla and process at high speed until smooth. Pour into bowl and chill, stirring occasionally, until mixture mounds slightly when dropped from spoon. Fold gelatine mixture into whipped cream. Pour into 2 (4" X 10") freezer trays or 8-inch baking pan; freeze until firm. Makes about 1½ quarts.

FRUITIFREEZE POPS

- 1 envelope Knox® Unflavored Gelatine
- ⅓ cup sugar
- 1 cup unsweetened fruit juice, heated to boiling
- ½ cup water
- 1 tablespoon lemon juice
- 1 cup pureed unpeeled fresh California peaches plums or nectarines

In large bowl, mix Knox Unflavored Gelatine with sugar; a hot juice and stir until gelatine is completely dissolved. Stir in remaining ingredients. Pour into 6 (5 oz.) paper cups; free until partially frozen. Insert wooden ice cream sticks; freeze until firm. Remove from freezer 5 minutes before serving. P off paper cup. Makes 6 pops.

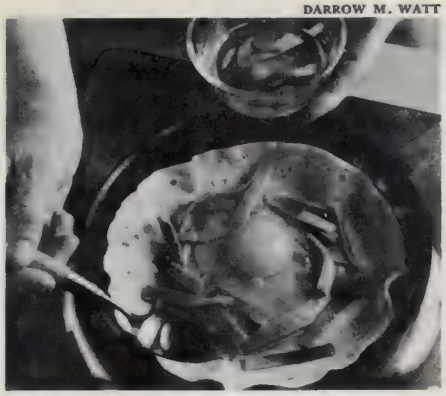
an at least 9 by 13 inches. Pour mari-
ade over ribs and seal bag securely.
urn bag several times to distribute
arinade. Refrigerate at least 4 hours
overnight; turn over several times.

o prepare barbecue, first cover fire bed
ith charcoal briquets spaced slightly
part. Mound briquets and ignite; when
vered with gray ash (about 30 min-
es), spread again to make a single layer.
t grill about 6 inches above hot coals.

ft ribs from marinade; drain briefly
d place on grill. Dip cut sides of onion
marinade, then place cut side on grill;
at corn with marinade and place on
ill. Cook ribs, turning and basting fre-
ently, until well browned and slightly
nk near bone (or done to your liking).
ook onions until cut side is browned,
en place skin side down and cook until
nder when pierced. Turn corn to brown
sides. Cooking time for all is about 25
nutes. Serves 5 or 6.

ustard-wine marinade. Mix together
til well blended ¼ cup **spicy brown**
stard; ½ cup **dry white wine;** ⅔ cup
ad oil; 6 tablespoons **white wine vine-**
; 1 teaspoon **salt;** 1½ teaspoons **Ital-**
herb seasoning (or ¾ teaspoon *each*
basil ond oregano leaves); 2 to 3
ves **garlic,** minced or pressed; and ½
spoon **pepper.**

DARROW M. WATT



Drizzle water *under tortilla edges to keep it soft and pliable as it cooks*

Breakfast on the run

You cook your egg with ham and cheese on a tortilla, then fold the tortilla to make a tidy, slightly crisp packet. Balance out the meal with fruit and juice.

Breakfast Burritos
Slices of Avocado and Orange
Tomato or Guava Juice

Have all the ingredients for the burritos ready to cook and handy to the heat.

Breakfast Burritos

For each serving, you'll need one 7- to 9-inch **flour tortilla;** 1 slice (about 1 oz.) **Cheddar** or jack **cheese;** 1 slice (about 1 oz.) **cooked ham,** slivered; 1 **egg;** 1 to 2 teaspoons **taco sauce** (optional); and about 2 teaspoons **water.**

To cook, set a 7- to 8-inch omelet pan or frying pan on medium heat. When pan is hot, lay tortilla in it; warm one side and turn. Lay cheese slice in center of tortilla, break egg on top, and sprinkle with ham. Drizzle water under tortilla; cover pan and cook just until egg white is set, about 2 minutes.

Add taco sauce and fold tortilla sides over filling; slide onto a plate. Serves 1. —*M. F., Palo Alto, Calif.*

Greek-style company dinner

To complete the Greek theme of this menu, we suggest sesame-crusted rolls, a salad that includes slightly bitter chicory, and a dessert of fresh apricots topped with yogurt.

Individual Moussakas
Sesame Rolls
Mixed Greens Salad
Split Apricots with Fruit Yogurt

You can make these moussakas several hours ahead, or complete any of the steps a day ahead. The rolls should be hot, and if you serve the moussaka hot, they can share the same oven. Or let the

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NOODLES and CHUNKS

- ½ cup chopped onion
- 1 medium garlic clove, minced
- 2 tablespoons butter or margarine
- 4 tomatoes, peeled and chopped (3½ cups)
- ½ cup chopped celery
- 1½ teaspoon basil, crumbled
- ¼ teaspoon pepper
- 1 8-ounce package medium noodles
- 1 can (12½ oz.) Valley Fresh White Chunked Chicken drained

1. Sauté onion and garlic in butter until tender.
2. Add tomatoes, celery, basil and pepper. Simmer 8 to 10 minutes, stirring occasionally.
3. Meanwhile, cook noodles in about 2 qts. boiling water about 8 minutes or until tender.
4. Gently stir chicken into tomato mixture and cook just until hot. Spoon over hot noodles. Makes 4 servings.

Also try Valley Fresh Chunked Chicken, Mexicana Chicken and Chicken Sandwich Mix.

moussaka cool and serve it at room ten perature.

Individual Moussakas

- 2 large (about 1½ lbs. each) eggplants each about 7 inches long, excluding stem
- 2 tablespoons *each* olive oil or salad oil and butter or margarine
- 1 pound ground lamb
- 1 small onion, chopped
- 1 clove garlic, minced or pressed
- 1 tablespoon all-purpose flour
- ½ teaspoon *each* ground cinnamon a oregano leaves
- ½ cup dry red wine
- ¼ cup *each* catsup and water
- Salt
- Custard-cheese topping (recipe follows)

Trim and discard ends from eggpla then cut each crosswise to make 3 eq slices, each 2 to 2¼ inches wide. Pl the oil and butter in a 9- by 13-inch p set in a 400° oven to melt butter, range eggplant slices in pan, turning coat both sides. Bake at 400° for 20 m utes; turn slices over and bake 20 minu longer, or until eggplant is brown very soft when pressed.

Using the back of a large metal sp push down flesh of eggplant slices in c ter to form a deep bowl; if made ahe leave in cooking pan, cover, and chil long as overnight.

For meat filling, crumble the lamb in 10- to 12-inch frying pan on medi high heat; cook, stirring, until bro Add the onion and garlic and cook, ring, until onion is limp; drain off Stir in the flour, cinnamon, and oreg cook until bubbly. Gradually stir in wine, catsup, and water. Continue c ing and stirring over medium heat, covered, until juices evaporate a thick sauce forms, about 10 min Salt to taste. (If made ahead, cover chill as long as overnight.)

To assemble, lightly pack equal por of meat mixture into eggplant b Make a well in center of meat mixt then spoon on equal portions of cus cheese topping. Bake in a 350° oven custard is brown and firm, about 40 utes. Serves 6.

Custard-cheese topping. Melt 3 t spoons **butter** or margarine in a 1- quart pan on medium heat. Stir tablespoons **all-purpose flour** an teaspoon *each* **ground nutmeg** and **pepper;** cook until bubbly. Off the gradually stir in 1½ cups **milk;** bri boiling, stirring constantly, and until sauce thickens. Stir hot sauce beaten **egg yolks;** return to pan and on medium heat, stirring, for 1 m longer. Remove from heat and stir cup grated **Parmesan cheese.** Beat **whites** until soft peaks form; f cheese sauce. Use hot.

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BRUNCHTIME EGGS

4 eggs, beaten
¼ cup skim milk
2 crisply cooked bacon slices, crumbled
1 tablespoon green onion slices
Dash of salt and pepper
4 white bread slices, toasted
Soft Diet PARKAY Reduced Calorie Margarine
8 LIGHT N' LIVELY Process Cheese Product Slices

Combine eggs, milk, bacon, onion and seasonings; pour into preheated nonstick skillet, stirring occasionally until eggs are cooked. Spread bread with margarine; place on ungreased cookie sheet. For each serving, cover bread slice with cheese product slice; top with egg mixture. Cover with additional cheese product slice, cut in half diagonally. Broil until process cheese product begins to melt. 4 servings

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UNE IN YOUR GARDEN:

Last-chance planting for summer. Mostly, though, it's time for serious watering, feeding, garden grooming

nmer arrives at different speeds in thern California this month. On the st, gardens are experiencing some hot s, but weather is still generally balmy. nd, summer is moving into high gear. deners still have time to do some last-ute planting (particularly in areas summer fog), but you'll be mainly upied with fertilizing, watering, and r maintenance tasks. Some vege-es and flowers planted in spring may to pay off this month.

color under oaks, ome natives

vy watering can spell disaster for , since soggy soil invites invasion by root fungus, *Armillaria mellea* (see November 1980 *Sunset*, page 108). leners who plan to plant under their for spring and summer color might to try one of three drought-tolerant e plants recommended by the Sara- Horticultural Foundation for that ose.

bright red, pink, or white blooms in ner, try the perennial coral bells (*Heuchera*). The small, nodding tubular flowers appear in clusters on 15- to 30-inch stems. The plants are 6 inches tall with bright green scalloped leaves. Hummingbirds are attracted to the blooms.

The medium-size shrub Monterey manzanita (*Arctostaphylos hookeri* 'Wayside') is another good choice. In spring it is decorated with clusters of small bell-like white blooms, in summer with red-brown fruit. Inch-long toothed leaves grow densely on plants that reach 3 to 4 feet high and spread 8 feet or more.

For a taller background plant, try coffeeberry (*Rhamnus californica* 'Eve Case'), which produces modest white blooms followed by berry-like fruit that turns from red to purple. Coffeeberry has 2-inch medium-green leaves and dense, full growth. It reaches 4 to 8 feet tall, with an equal spread.

s-happy black-eyed Susan oom on into fall

-flowered vine for summer black-eyed Susan (*Thunbergia* lost commonly sold in 8-inch plants are delicate-looking with serrated leaves and a n of flowers from now until cold Let them spill from a hanging window box, or plant them in nd and train them up a fence or hot inland climates, provide shade.

urage new growth, cut plants never they get shabby or ecome sparse. In very mild-eas, as around the Bay Area, ty come back year after year; back to about 10 inches to keep vines good-looking vely compact.

Bringing in the potato bounty

A rainy spring delayed the planting of potatoes in most gardens, so you may still have to wait awhile before potatoes are mature. Meanwhile, you can carefully dig down with your hand and harvest a few young potatoes for eating.

As potato plants move into the home stretch, you'll notice that plants look droopy in spite of moist soil. Don't try to perk them up with more water—the droopiness is a sign that the potatoes are getting mature. Too much water at this stage could cause them to rot.

Once top growth starts to decline, you can dig up the plant and all its potatoes as Johnny Walbridge of Santa Cruz does (see photograph at right). He stores his potatoes in a box filled with dry mulch or straw, which is kept in a cool, dark spot. Potatoes will lose quality when stored at temperatures above 70° or below 40°.

Another new daisy

Not a marguerite but with a similar shrubby habit and daisy-like flowers, *Euryops pectinatus* has been a standby

Sunset's GARDEN GUIDE

Special information for high elevations, page 226

DARROW M. WATT

Rows of 'Pontiac' potatoes *yield bountiful harvest for Johnny Walbridge of Santa Cruz, who starts to dig mature potatoes when top growth declines*

Sunset's GARDEN GUIDE

perennial in California gardens for at least two decades. Plants are woodier than marguerites and live longer. Finely cut leaves are traditionally gray-green, and the 1½- to 2-inch flowers stand up on 6-inch stems.

Recently, a variety has been introduced that has shiny dark green leaves instead of the customary gray-green, slightly fuzzy foliage (see photograph at right). This new selection is sold as 'Green Gold' or sometimes as 'Emerald Green'. The bright yellow flowers show up particularly well against the dark green foliage.

You may have to search for this new variety, but the traditional *Euryops* should be widely available in nurseries now. Plants prefer a sunny spot with fast-draining soil.

Euryops varieties tolerate some drought once established. Since they are damaged by frost, don't plant if your area gets sharp frosts in winter.

CHAD SLATTERY

Shiny green leaves *of new euryops 'Green Gold' complement yellow blooms. Traditional euryops (smaller plant at right), has gray-green foliage*

Prompt weeding helps control the spurge scourge

Most gardeners are intimately acquainted with the weed known as prostrate spotted spurge (*Euphorbia supina*) shown below, even though they may not know the name. This pesky plant is quick to take advantage of faltering lawns, or it may try to elbow its way into your planting beds. Once it finds satisfactory accommodations, it grows rapidly and produces a phenomenal amount of seeds (each plant can muster several thousand). It then declines and turns a red-orange color that is most noticeable in lawns.

The critical factor in controlling spurge is to whack or pull it out early, before it has a chance to produce seeds. You have to be diligent, since spurge can go from seedling to seed-producer in a month and quickly get out of hand. Be on the alert for small plants wherever spurge has been a problem in past summers.

DARROW M. WATT

Dig out *or pull prostrate spotted spurge weed before it gets this big; this one is already blooming and producing seeds*

Helping fuchsias through the summer heat

Life gets more hazardous for fuchsias as temperatures start to rise—particularly in hot summer areas such as the Central Valley. You can help ensure that your fuchsias thrive in summer by taking a few precautions:

Make sure that hanging-basket fuchsias in lathhouses or under eaves are kept at least a foot or two from the structure overhead. Even in a lathhouse, he trapped under the top, making it unc fortably hot for plants in summer.

Wood or clay containers will keep r cooler than plastic pots. If your w contains dissolved salts, avoid spra the foliage, since this causes white posits to develop on the leaves. (Bes occasional spraying raises the hum only temporarily, without any long ing benefit to the plants.)

Another common mistake is overw ing. Constantly soggy soil can lea root rot; dig down with your trow find out if the soil is actually dry. W temperatures rise, fuchsias may wilted even when the soil is wet, but generally recover overnight. A 2 layer of mulch on the soil will con moisture and help keep roots cool.

Volunteer at the University of California Botanical Garden in Berkeley

Many gardeners who enjoyed month's plant sale held by the U.C tanical Garden in Berkeley may not ize that the sale is made possible b efforts of volunteers. They work round to propagate and prepare p for this annual event. Also, volu man the information center at the den. You don't have to be an expe help out in any of these tasks.

If you are interested in contributing services, write to Volunteer Coordi Friends of the Botanical Garden,

sity of California, Centennial Drive, rkeley 94720, or call (415) 642-2084 ween 8 A.M. and noon weekdays.

varf escallonia thrives in rthern California

:allonia fans may have noticed that re nurseries are now offering the arf variety of these attractive shrubs. d as 'Newport Dwarf' or 'Compakta', variety was hybridized in northern ifornia and produces its 2-inch-wide sters of tiny pink flowers almost year- nd in areas where frost is not severe.

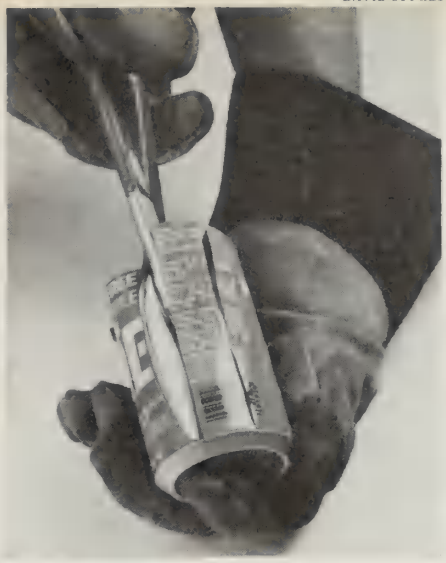
shrub, which has dense growth of ıy, dark green leaves 1¼ inches long, ws slowly to about 4½ feet tall and vide. Escallonia does well in full sun ıt shade in hot inland climates). While olerates wind and some drought, it s best with ample water. You will l to remove dried flower clusters and ccasional wild shoot.

ıt labels from aluminum cans

n you put in a permanent plant or riment with different varieties of tables or annuals, it's easy to lose of the names of your new garden guests. To help you remember, try labels made from aluminum beverage cans.

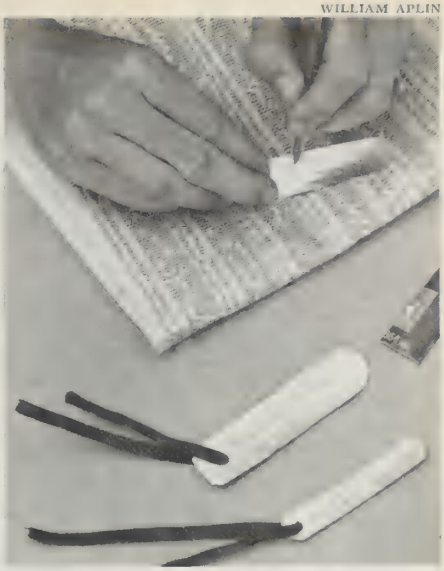
With tinsnips (and wearing leather gloves for protection), start cutting from the hole in the can and remove the top end. Then cut strips from the side and snip them loose from the bottom. Round off sharp corners. For labels to stick in the ground, snip one end into a point. Imprint the label as shown above. □

DAVID STUBBS



With tin snips, *remove top from aluminum beverage can and cut cylinder into label-size strips*

WILLIAM APLIN



To imprint letters, *write firmly on metal with ball-point pen. Punch holes for plant ties*

JUNE CHECK LIST: *Here is early summer action*

☐ **Care for new plantings.** Warm soil speeds root growth, but hot weather can be hard on new plantings. If possible, plant in the cool of the evening. If weather is sunny and hot, shade plants for a few weeks after planting and keep the soil evenly moist. (Bedding plants appreciate this coddling, too.)

☐ **Control powdery mildew.** Many plants fall prey to powdery mildew this time of year; particularly susceptible plants include begonias, crape myrtle, dahlias, roses, and zinnias. Good air circulation helps, so try not to crowd plants. Thin inner branches of roses to open up centers. If necessary, use a fungicide (check labels to determine the best one for your plants).

☐ **Fertilize.** Fast-growing, high-performance plants such as annuals you planted last month appreciate frequent light feeding now. Plants growing in containers lose nutrients quickly by leaching; for strong and continuous flower production, give them a reduced concentration of fertilizer with each watering. Now is the time to fertilize roses and warm-season grasses such as hybrid Bermuda.

☐ **Move house plants.** Perk up house plants by moving them outdoors to a protected patio or other spot out of direct sun or drying winds. Wash off dusty foliage and remove any damaged leaves.

☐ **Plant annuals.** Nurseries will be well stocked with bedding plants this month. Plant these now, for color through the summer: ageratum, semperflorens begonias, celosia, coleus, dahlias, dianthus, impatiens, lobelia, marigolds, petunias, portulaca, salvia, sweet alyssum, and zinnias. If you want to sow seeds, choose annuals that will grow quickly enough to produce flowers for a summer show; try cosmos, marigolds, portulaca, sweet alyssum, and zinnias.

☐ **Plant herbs.** Nurseries will have a wide assortment of herbs available now, or you can plant herbs this month from seed. Many herbs—marjoram, rosemary, sage, savory, thyme—develop good flavor in poor but well-drained soil. They do best in full sun with minimum feeding. Basil, chives, coriander, and parsley will perform better in richer soil.

☐ **Plant vegetables.** You still have time to plant the heat-loving vegetables, but don't dally—they need all the long hot days they can get. Sow corn, melons, pumpkins; set out transplants of eggplants, peppers, and tomatoes. This month you can also sow seeds of beans, beets, carrots, chard, cucumber, radishes, and squash.

☐ **Plant warm-season lawns.** Now is a good time to plant hybrid Bermuda or dichondra lawns. Or you may want to reseed old ones. If established dichondra looks scraggly this month, it's probably setting seed. It should be growing well again when new seedlings emerge.

☐ **Propagate plants.** To have plants ready for transplanting in fall, start biennials and perennials this month from seed. You can take cuttings of chrysanthemums, carnations, evergreen candytuft, fuchsias, hydrangeas, and marguerites. Lift and divide crowded clumps of bearded iris after they have bloomed.

☐ **Water.** Plants will be growing vigorously, and since summer rain is rare, they depend on you to provide regular watering. Reduce water bills by spreading a 2-inch layer of mulch on the soil. Build watering basins out to the drip line of plants to avoid wasteful water runoff. Give plants deep soakings that saturate the entire root system, not shallow sprinklings. Or consider switching to a drip irrigation system.

DARROW M. WATT

Corn grown in short rows *pollinates more freely, develops better ears than seed planted in one long row. For a long harvest, two rows of 'Golden Cross Bantam' were planted every two weeks*

Ready to harvest: *silks are brown, kernels spurt milk when poked with fingernail, raw kernels taste sweet*

Corn secrets . . . for high yields and a long harvest

Circle of corn *is 16 feet across; concentric rows were planted 30 inches apart. Half the circle is 'Honey and Cream', half is 'Honey Cross'*

Corn is not a fussy crop, but simple mistakes may foil your harvest. What kind and when you plant are important; how you arrange the rows can mean the difference between success and failure.

Gardeners in most of the West can plant this month. In Southern California, you can plant until the end of July. In the low and intermediate desert, you get best results with late February or March planting, but you can also have a fall harvest by planting from late July through early August.

For a long harvest, choose varieties that ripen at different rates, or plant one variety at two-week intervals. Remember that in a cool climate corn may take up to 20 percent longer to ripen than indicated on the seed packet. (Early varieties tend to produce smaller, tougher ears, but they are still the best bets for short-season areas.)

Plant in a pattern that ensures maximum pollination. Short parallel rows are traditional. (If you plant one long row, much pollen will blow away from the plants, and the crop will be poor.) Other arrangements that allow pollen to move easily between plants also work. As shown at bottom left, Lester Bruba of Los Altos Hills, California, us circle pattern, with rows 30 inches ap

Corn prefers loose, fast-draining soil plenty of nutrients. Add organic m (at least a third the total volume of and work in fertilizer before plan Feed plants at least twice.

Make sure the soil is moist before p ing (soak the area, then wait a few to plant). Scoop out a 6-inch trench a the length of each row, piling up the in a long mound next to the furrow. seeds 1 to 2 inches deep at the crest o mound. Space seeds 4 to 6 inches a then thin to 8 to 12 inches apart plants are about 6 inches tall. Corn cross-pollinate, so don't mix sweet with popcorn.

With the row method, you can wate corn by flooding the furrows bet rows. Mr. Brubaker waters his corn with a sprinkler attached to a tall placed in the center of the plantin you could flood concentric circles o rows and mounds. Corn thrives deep, infrequent watering. Don't dry to the wilting point since this result in partially filled-out ears.

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GREGG MANCUSO

Mexico and South America *in Berkeley: cactus in the New World Desert section, UC Botanical Garden*

The UC public gardens . . . all free, different specialties

How did botanic gardens get to be part of our universities?

The first ones were planted to furnish medicinal plants for the medical school faculty. With the rise of systematic botany, they became classrooms and laboratories for plant study. They also served as gardens of acclimation, where plants of economic or ornamental use were introduced from abroad or otherwise carried to new habitats.

In northern California, the University of California has three botanic gardens or arboretums (the terms are often used interchangeably, although an arboretum should specialize in trees and shrubs). These exist primarily to serve the university, but they also offer much to the public. Here, briefly, are the gardens—locations and hours, principal collections, and services.

In a deep, shady canyon in Berkeley, 20 acres of plants from around the world

Oldest of the three (1928), the UC Berkeley Botanical Garden is in Strawberry Canyon between Memorial Stadium and the Lawrence Hall of Science.

Plants are grouped according to the region of their origin—Africa, Asia, Mexico—or according to use—herbs, economic plants, and the like. Probably the most striking are the New and Old World deserts, two plantings near the entrance.

The deep, shady canyon on the other side of the desert gardens is Rhododendron Dell; beyond are the Asiatic and South American plantings. The Botanical Garden has been active in collecting in these areas, recently even in mainland China. Downslope from the desert gardens is the California area.

The garden is open, free, from 9 to 4:30 every day except Christmas. Free public tours are given on Saturday and Sunday at 1:30 P.M. Guided group tours can be arranged at least three weeks in advance (50 cents per person). Call (415) 642-3352 for tour schedules; for general information, 642-2084.

A support group, Friends of the Botanical Garden, assists in leading tours, sponsoring public lectures and workshops, and staffing a public information office. To join, write Friends of the Botanical Garden, Centennial Dr., Berkeley 94720.

Lagoons, paths, and bridges compensate for flatness at Davis. Woody plants only

The University of California at Davis Arboretum, established in 1936, lies along both sides of the North Fork of Putah Creek at the southern boundary of the main campus. It is easily reached by taking the UC Davis exit from Interstate 80. The terrain is flat, but the winding stream, dammed to form two large lagoons, lends considerable charm to the groves, paths and bridges in the unfenced 80-acre tract.

This collection serves the Botany and Environmental Horticultural departments, but it also has useful information for visitors. Its main purpose: to find plants that will withstand Central Valley heat and drought with minimal attention.

A true arboretum, it contains only woody plants. There is an outstanding collection of oaks, both native and exotic, evergreen and deciduous. Other special collections are eucalyptus, acacias, conifers, and California natives. A thriving redwood grove shades one area. An excellent bicycle trail through the arboretum makes it a fine place for bike-toting motorists to get out, stretch, and take a good look at a delightful oasis.

The arboretum is open at all times, and admission is free. During the fall, winter, and spring, free tours led by docents are held Saturdays at 10, Sundays at 1. Special tours for school classes or clubs can be provided if reservations are made well in advance. Write Friends of the Davis Arboretum, Department of Botany, University of California, Davis 95616, or call (916) 752-2498.

The Friends organization assists in guide service, in publishing pamphlets, in adult and outdoor education programs, and in raising funds through membership fees and plant sales. If you wish to join, you will receive schedules of public lectures and will be able to take part in special garden tours. Membership is $7, $3 for students and seniors.

South-of-the-equator natives thrive on sunny southwest-facing slopes above Santa Cruz

The University of California at Santa Cruz Arboretum is on the southwestern edge of the campus along Empire Grade.

In a comparatively short time (the garden opened in 1[illegible]) this garden has amassed what is probably the finest collection of Southern Hemisphere plants outside the Southern Hemisphere. Especially striking are the proteas and their relatives, the West Australian plants, and the unusual conifers.

The garden is open, free, on Wednesdays, Saturdays, and Sundays from 2 to 4. Volunteer guides are on hand to help visitors around the garden. Plants propagated by the staff are offered for sale during visiting hours. Even experienced plantsmen are surprised at the rarity of the offerings, but prices are comparable to those in retail nurseries.

Arboretum Associates receive bulletins on new plants being grown and offered for sale and get announcements of classes and lectures. Membership costs $5; write Arboretum Associates, University of California, Santa Cruz 95064.

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Please tell us about your avocado

estern America nourishes two avocado lustries: a commercial one, and an ateur one made up of garden trees t may or may not bear fruit. Some ateur growers planted trees as nursery-own plants, others inherited their trees m previous homeowners, and still ers sprouted avocado seeds in glasses water on kitchen windowsills.

uset would like to get an accurate ding on amateur avocado growers' asures and problems. So, if you keep or more nonprofit avocado trees (in ground or in containers), please wer a few questions for us.

st, please give us your name, address, , zip code, and—if you wish—day-e telephone number.

basic questions: How many trees do have? How did you start it or them? at are their variety names? If you 't know, tell us what the fruit is like n and flesh) and when it gets ripe. w old is each tree? How big is it? w do you like the tree?

ne specific questions. The following questions common among amateur cado growers. If you have figured out e of the answers, please share them h us. We would also like to know ch questions you consider most im-tant and which answers would benefit most.

Do you know about pollination for er fruit set and are you getting the t from it?

Do you know when to fertilize? What use for fertilizer? Do you know the way to water?

Do you know what to do with the leaf ? Can you garden under your tree?

f your tree grows in a form you don't , can you prune it to change its form?

Does your seedling avocado bear sat-ctory fruit? If not, can you graft a ring avocado onto it?

Do you know when and how to pick? you know how to pick from a tree 's 40 feet high?

f you live a long way from Southern fornia's avocado belt, how do you your trees vigorous and fruitful?

here are other questions that you k your fellow amateur avocado vers would like to ask or hear an-rs to, be sure to tell us about them.

se send your information to Back-l Avocados, *Sunset Magazine*, Menlo , Calif. 94025. Thank you. □

E 1982

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MICHAEL THOMPSON

As a screen or shademaker, pole beans are useful, productiv

This bean row *screens tool shed. Vines climb bird netting stapled to 2-by-2 posts*

GIVE YOUR HOUSEPLANTS KNOX® UNFLAVORED GELATIN AND WATCH THEM GROW FULLER AND GREENER.

Knox Unflavored Gelatine has no artificial ingredients. But it does have lots of nitrogen, just what houseplants commonly need to flourish.

Just mix one envelope of Knox with one cup of very hot tap water to dissolve. Then slowly add three cups of cold water to make a quart of liquid. Prepare only as much of the mixture as you plan to use at one time. Once a month, use the Knox mixture as part of your normal watering pattern and you'll see amazing results as we have shown above.

And here's another important fact to remember. To help your plants grow, they need to be periodically repotted into larger pots using a standard potting soil.

For fuller, greener plants, nourish them with Knox.

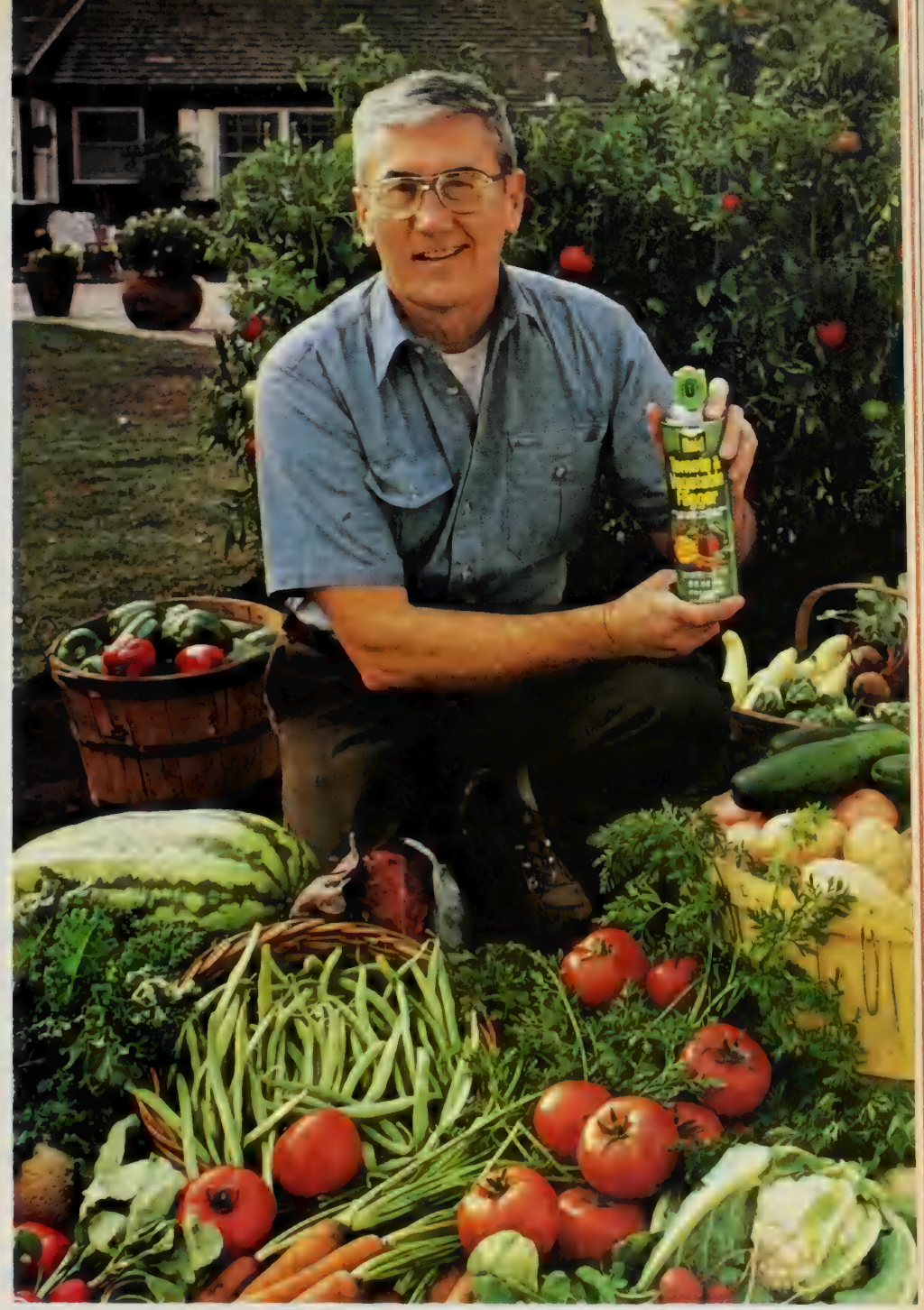
mong the most productive crops in the arden, beans are also useful ornaıentals. Planted this month, pole types ill shoot up to the eaves without a ıought.

thel Stave of Lynnwood, Washington, ·ew the 'Blue Lake' beans shown at left ı bird netting stretched between 2 by s to hide a tool shed for the summer, hen her family uses the garden most. s a bonus, the shady area between ·ans and shed stays cool, allowing her grow lettuce into summer without it ›lting.

g Lodwig of Centralia, Washington, und that growing 'Blue Lake' beans elow) along his house wall meant he dn't have to build an elaborate support ame for the vines—they climb strings at hang from the eaves. The strings are oped under a horizontal bamboo pole, ıked close to the ground. The site freed rden space for other vegetables, and e bean screen provided a leafy alternae to an otherwise bare wall. □

DON NORMARK

ıatural air conditioner, *screen ps hot sun off house wall. o-foot space between bean row wall gives the owner enough space to harvest*



"I've never endorsed a garden insecticide before, but this new one's a natural."

Bob Thomson, Gardening Expert

"I've read a lot of garden insecticide labels. And most warn you not to pick for at least 24 hours. That's because they contain synthetic or systemic bug killers. But the bug killer in new Raid Tomato & Vegetable Fogger is all-natural pyrethrum, derived from a type of chrysanthemum flower. So you can use it right up to harvest.

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ERNST H CENTER LOCATIO NEVADA AND W

NORMAN A. PLATE

ite PVC arches *do two jobs: they deliver water and support protective ing. Water runs through underground pipes between beds, turns on near the house*

Raised bed protects and waters itself

least six restraints stood in the way Dian Duchin and Bobby Marcowitz's etable garden. Topping the list were hers, birds, dogs, cats, heavy clay , and the hard-to-water slope of their ta Cruz, California, property. Der Marcowitz's solution was a covd raised bed that waters itself.

simple boxes, built of 2-by-12 redod nailed to 4-by-4 posts, are filled a commercial topsoil mix. Plants protected below ground by gopherof hardware cloth, above by birdof netting. The PVC pipe framework nits easy irrigating. These gardeners ually water while they pick or weed, e the small sprayers distribute water inside the boxes, not on the paths.

edule 40 ½-inch pipes are glued to T elbow fittings. Metal plumber's tape ps the frames to the box rims. Separvalves operate the raised-bed watersystem and a larger low-volume (drip) em that serves other parts of the len.

small spray nozzles cost about 10 to ents apiece at hardware and sprinkler ply stores. They work best at low pressure (at 20 to 30 psi, flow is ¼ gallon per minute with a 3-foot-radius spray) and have a threaded end that screws easily into flexible polyethylene tubing.

Small plastic nozzles *screw into pipes, spray water into beds. This one sprays a half-circle; ones at corners are 90°*

To insert in PVC pipe, drill a 5/32-inch hole and thread it with a 10/32 tap before carefully screwing in the plastic nozzle. A more durable brass version is available at a slightly higher price. □

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Whiteflies *(shown here four times life size) congregate on leaves, suck plant juices. Dislodge them with jets of soap and water. In severe case, use a systemic insecticide (on ornamentals only)*

Caterpillar-chewed leaf. *Hand-pick or spray with Bacillus thuringiensis, a biological control that kills plant-eating larvae*

Woolly oak aphids *(three times life size) exude wax, suck juices. Blast with soap and water or apply systemic insecticide*

NORMAN A. PLATE

DARROW M. WATT

ty mold *formed after aphid attack. Wash off with up-close jets of liquid insecticidal soap (sold at nurseries) and water*

Did Medfly spraying give us a pesty 1981 summer? No one's sure. But here's what to look for this year

Aphid damage *distorted these citrus leaves; pruning was only solution. Cut back to live growth bud*

radicate the Mediterranean fruit fly e San Francisco Bay Area last year, insecticide malathion was aerially ved over attack zones. Following sprayings, it seemed to many home eners that they were seeing larger- usual outbreaks of certain insects heir gardens. In January, *Sunset* l Bay Area readers who live in the zones to report what they observed eir gardens after the spraying.

thirds of our respondents reported problems with whiteflies. A smaller significant proportion noted up- s in their garden's populations of ls, caterpillars, cutworms, and cab- worms. A few gardeners noticed mealybugs, leafhoppers, snails, lugs. But some were pleased to re- an absence of walnut husk flies.

icture here some of the insect pests commonly reported in the spray Shown above is sooty mold, which follows a severe infestation of ls or other sucking insects.

gardeners blamed these infestations on an ecological imbalance caused by the repeated aerial spraying of malathion mixed with a fly attractant.

Dr. Kenneth Hagen, professor of entomology at the University of California at Berkeley, says the malathion-bait spray does kill many tiny beneficial insects which kill whiteflies, aphids, and other garden pests by feeding on them or laying eggs in their bodies.

Several UC scientists and California Department of Food and Agriculture officials have begun studying the effects of the spraying. Until results are in, it seems "impossible to attribute the observed increases . . . solely to the malathion-bait sprays," says Dr. Robert Dowell, state pest management specialist. (Indeed, home gardeners living outside the spray zone also reported higher than normal numbers of some of these insects. They attributed the problem to the mild winter of 1980-81.)

At *Sunset's* press time, no major new spray program had been started, but any new Medfly finds during late April or May would have led to its resumption. Malathion would still be used—despite side effects, it is the safest insecticide that is effective against the Medfly.

Whether there is spraying this year or not, gardeners in Medfly spray zones should be prepared to deal with certain insect infestations again. (Even once the spraying stops, it will take a year and possibly longer for the insect populations to rebalance themselves, according to Dr. Hagen.)

To control damaging insects this year, you should use techniques that won't kill a significant number of beneficial insects and that will still work even if malathion must again be sprayed. (For example, releasing lacewings to eat aphids isn't advised now because further malathion spraying would kill the lacewings.)

For suggested controls, see the captions. A source of further information is the John Muir Institute Technical Assistance Center, 1010 Grayson St., Berkeley 94710; ask for the free catalog of publications on home pest management. □

More on the grays: a find-your-choice chart of 28

Cut back *dusty miller's spent blooms regularly for good growth, looks. This one is Centaurea cineraria*

Dense, *velvety Helichrysum petiolatum (foreground) and fluffy cushion bush (rear) mark this path on overcast days and even on dark nights*

Gray-leafed plants play many special roles in the garden. We show several of them in color on pages 90 and 91; on this page you can see three more used in the landscape.

Altogether about 70 kinds of gray-leafed plants of shrub size and smaller are sold in the West. In the tree category there are dozens more, thanks mostly to the many kinds of *Eucalyptus* and *Acacia*.

The chart below and on page 222 scribes and tells you about uses fo of the most widely adapted and widely sold grays.

Beyond the specific needs mentione each plant, most of the grays need drained soil, and many need ro pruning, shearing, and—perhaps— heading. For more cultural details page 90.

From silvery yarrow to bush morning glory . . how big the plant, how to use it

	Northwest	No. Calif.	So. Calif.	Desert	High Elev.	
Silvery yarrow (*Achillea clavennae*, often sold as *A. argentea*)	•	•	•	•	•	Lacy, silvery 6-inch cushion topped in spring with clusters of white flowers. Similar Greek yarrow (*A. ageratifolia*) is a good substitute; both make neat edgings, small-scale ground covers, rock garden plants.
Artemisia (*A. arborescens*)		•	•			Handsome shrubby perennial forms 4-foot-high cloud of silky, finely divide silvery white leaves. Worth a search. For compactness, prune branch tips w 6 inches long. Larger borders; striking contrast with red-leafed shrubs, trees
Dwarf artemisia (*A. schmidtiana* 'Nana', also sold as 'Silver Mound')	•	•	•	•	•	Fluffy 10-inch dome of glistening, thread-like silver leaves. Dies down completely in winter; mark its position. Regrows in spring. Small yellow flowers of little value. Rock garden or low border.
Cushion bush (*Calocephalus brownii*)		•	•			Unique shrubby evergreen perennial looks somewhat like tumbleweed sprayed silver. Somewhat tender, best in coastal climate; fairly heat tolerant Takes wind, salt air, spray. High ground cover, rock garden, arrangements.
Dusty miller (*Centaurea cineraria*, often sold as *C. candidissima*)		•	•	•		Most familiar of several plants called dusty miller. Compact foot-high perennial with velvety grayish white, strap-shaped, broad-lobed leaves and yellow flowers. Grows fast; sometimes treated as annual in cold climates. H edgings, mixed borders, containers. Great with coral or scarlet geraniums.
Snow-in-summer (*Cerastium tomentosum*)	•	•	•	•	•	Silvery gray, 6- to 8-inch mat smothered with small, glistening white flowers early summer. Fast ground cover for sun or light shade. Cut faded flowers. Tolerates more water than most grays. Drab in winter, regrows fast in sprin
Chrysanthemum haradjanii, occasionally listed as *Tanacetum densum* 'Amanum'	•	•	•	•		Intriguing, a bit tricky, but stops traffic at its summer best. Dense carpet of woolly white, feathery-leafed rosettes. Lower leaves turn yellow in July; cut back to force new shoots. Tender to frost (25°), subject to root rot in wi Divide, replant every two years.
Bush morning glory (*Convolvulus cneorum*)	•	•	•	•		Rounded, 2- to 4-foot subshrub with silken silvery leaves. Pinkish buds ope into inch-wide yellow-throated white flowers tinged with pink. Late spring t fall; all year along Southern California coast. Border, rock garden.

(Chart continues on next pag

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(Continued from preceding page)

From pinks to speedwell . . . how big the plant, how to use it

	Northwest	No. Calif.	So. Calif.	Desert	High Elev.	
Pinks (*Dianthus*). Clove pink (*D. caryophyllus*); cheddar pink (*D. gratianopolitanus*); cottage pink (*D. plumarius*)	•	•	•	•	•	All three form mats of evergreen, grass-like foliage. Clove pink: gray-gree leaves, flowers in many colors. Cheddar pink: blue-gray leaves, pink flower Cottage pink: gray-green leaves, dark-centered rose, pink, or white flowers.
Gray-leafed euryops (*E. pectinatus*)		•	•	•		Clean-looking, 3- to 4-foot shrubby perennial with tufts of grayish green, finely cut leaves. Clear yellow daisies on thin 8-inch stems from early sprin into summer (almost year-round in mild climates.) Give protection in Northwest. Can take light shade. Border, informal hedge, containers.
Blue fescue (*Festuca ovina glauca*)	•	•	•	•	•	Grassy, blue-gray, tufted clumps to 10 inches. Sun or light shade in fast-draining soil. Needs shade, generous watering in hottest areas. Trim nearly to ground after flowering. Nontraffic ground cover, good with succulents, rocks, paving.
Trailing gazania (*G. rigens leucolaena*)		•	•	•		Long trailing stems blanketed with silvery gray foliage; studded with yello white, orange, or bronze daisy-like flowers in spring, summer. Fast ground cover for large level or sloping areas, raised beds.
Sunrose (*Helianthemum nummularium*)	•	•	•	•	•	Evergreen shrublets; some have gray or gray-green foliage, pleasing carpet colorful 1-inch flowers in late spring, summer. Good drainage essential. Sh after flowering for compactness. Rock gardens, ground cover on slope.
Curry plant, white-leaf helichrysum (*H. angustifolium*)	•	•	•	•		Subshrub to 1½ feet high with slender upright stems, thread-like silver lea Small yellow flower heads in 2-inch clusters. Pungent leaves and stems sme like real curry. Herb garden or border.
Licorice plant (*Helichrysum petiolatum*)		•	•			Shrubby 3-foot perennial; velvety, gray-green, white-backed, heart-shaped leaves on 3- to 5-foot stems. Rampant; prune frequently. Small creamy strawflowers. Banks, raised beds, high nontraffic ground cover.
Lavender (*Lavandula*). English (*L. augustifolia*); French (*L. dentata;* Spanish (*L. stoechas*)	•	•	•	•		Evergreen shrubs and subshrubs with fragrant gray, gray-green, or gray-w leaves; sweet-smelling lavender, lavender-purple, dark purple, or blue flow Borders, herb gardens, low and medium hedges, containers.
Catmint (*Nepeta faassenii*)	•	•	•	•	•	Graceful mounding perennial to 1½ feet. Soft gray-green aromatic leaves spikes of lavender-blue flowers in May, June. Cut back after flowers fade f second bloom. Billowy edging; cut sprays lovely in bouquets.
Crete dittany (*Origanum dictamnus*)		•	•	•		One of most ornamental herbs. Thick, roundish, white-woolly aromatic le on curving 1-foot stems. Pink to purplish. ½-inch-long flowers in airy, hop clusters. Herb border, rock garden, window box, hanging container.
Woolly cotton (*Santolina chamaecyparissus*)	•	•	•	•	•	Aromatic evergreen herb or subshrub to 2 feet. Narrow, finely cut leaves and woody stems densely covered with whitish felt. Remove faded yellow buttonlike flower heads. Shear in early spring to encourage bushiness. Lo clipped hedge, bank cover, border. Nice with green santolina (*S. virens*).
Dusty miller (*Senecio cineraria*)	•	•	•	•	•	Old-time, spreading, shrubby perennial to 2½ feet tall. Woolly white, blunt-lobed leaves, yellow or cream flowers. 'White Diamond' is whitest o dusty millers. Borders; combine with sun-loving perennials.
Dusty miller (*Senecio vira-vira,* often sold as *S. leucostachys*)	•	•	•	•	•	Evergreen subshrub to 4 feet, branching from base. Brilliant silvery white full sun. Leaves like *S. cineraria* (above) but much lacier. Creamy white flowers in loose, flat clusters. Large borders, containers.
Lamb's ears (*Stachys byzantina,* also sold as *S. lanata*)	•	•	•	•	•	Perennial leaves like lamb's ears, stems covered with woolly down. Small purple flowers on 12- to 18-inch stems in June, July. Frost and rain dama leaves; cut back in spring; new growth comes fast. Ground cover, edging.
Speedwell (*Veronica incana*)	•	•	•	•	•	Nearly evergreen to evergreen perennial valued for striking combination matted 3-inch silver leaves, contrasting bright blue flowers in 6-inch spike 1- to 2-foot, white-woolly stems. Borders, rock gardens.

FIVE GRAY-LEAFED SUCCULENTS

Dudleya farinosa, sometimes called bluff or cliff lettuce		•	•			Coastal succulent native from central California to southern Oregon. Sm clustered rosettes of chalky white leaves on branching stems. Pale yellow flowers on 6- to 12-inch stems in spring, early summer. Good in rock wall
Dudleya brittonii		•	•			Dramatic succulent from Baja California. Oblong powdery white leaves usually single rosettes to 1½ feet across. Pale yellow spring flowers on 1- to 3-foot stems. Shelter from frost, rain, hail. Striking in containers.
Hen and chicks, pearl echeveria (*Echeveria elegans*)		•	•	•		Grayish white succulent leaves form 4-inch-wide rosettes. Pink, yellow-ti flowers in 8-inch-long clusters on 10-inch stems. Fine form, color, texture rock gardens, walls, pattern plantings, containers.
Stonecrop (*Sedum spathulifolium*)	•	•	•	•	•	Hardy low succulent. Dense, flat rosettes of small blue-green, purplish-ti spoon-shaped leaves. Small light yellow flowers in spring, summer. 'Cape Blanco', with silvery rosettes, is choice. Small-space ground cover, rock garden, crevices. Charming in stone "sink" gardens. Give shade from hot
Dusty miller (*Senecio mandraliscae,* often sold as *Kleinia mandraliscae*)		•	•	•		Succulent subshrub to 1 foot tall. Stout trailing stems with pointed blue-g 3- to 4-inch leaves. Bold form and color when massed as ground cover or draped in rock walls. Sun or light shade; can't take severe frost.

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DARROW M. W

Flower is open *just enough for cutting. Make cut right above a five-leaflet leaf; new stem will grow where leaf meets ste*

How, where, whe to cut roses

If you know how to cut a rose and v treatment to give it when it's cut, can make it last a week or longer vase or arrangement.

The best times to cut roses, are in e morning and late afternoon. Brin bucket of warm water containing a p dered flower preservative (availabl nurseries and florist shops). Faste piece of chicken wire across the to the bucket or crisscross lengths of m ing tape to help hold cut flowers right and separate from each other.

Using sharp shears, cut the stem above a leaf that has five or more lets; a new branch will not form if cut above a three-leaflet leaf. The fa back you make the cut, the longer it take for the plant to regrow a flower. to cut above a bud pointing away the plant so the new stem will grow ward. Plunge the flower stem into bucket of water immediately.

In the photograph above, the flowe begun to open, but still has quite a to go; this is the proper stage for cut A fully open rose will last only a da two in a vase, and a tight bud will open at all.

To preserve flowers as long as poss change the vase water every two adding a dose of floral preservative time and cutting ¼ to ½ inch of bottoms of stems while holding under water.

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Sunset's HIGH-ELEVATION GARDEN GUIDE

Short growing season, cold winters

Now that spring is here, you'll find your list of gardening opportunities to be longer than in any other month. You can plant for summer bloom and summer harvest as well as for permanence.

Weeding is also important. If you don't get after weeds now, they will cause no end of trouble later—when you'd rather be relaxing in the summer sun.

Grouping plants with an artist's eye for texture

When William Snyder planted a flower bed next to his terrace in Moscow, Idaho, he selected and placed plants with an artist's expertise. This was natural, for this gardener is chairman of the landscape architecture department at the University of Idaho.

The result is pictured at right. The contrasting textures create considerable visual interest regardless of whether anything is in flower. Use of two larger-leafed plants, plantain lily and geranium) along the edge of the paving relieves a large expanse of small-pebbled exposed aggregate.

Here is a list of his choices:

Ajuga reptans 'Alba'. Ajuga is "unexcelled" as a mountain ground cover, Professor Snyder says. Most are blue; 'Alba' has white flowers. It grows thickly in shade. Set out small nursery plants on 12- to 15-inch centers in fertile soil.

Cushion spurge (*Euphorbia epithymoides*). It can be dense in full sun, but this planting gets taller and more open in partial shade. Medium-fine textured foliage of gray-green looks good all summer. In April, showy mustard yellow flowers appear; as they mature through the summer, these turn gold, then bronze.

Geranium himalayense (*G. grandiflorum*). This species geranium—no relation to the pelargonium usually called "geranium"—is a tufted, dark green mound that's easy to grow and fairly unthirsty. Early summer blooms are dark lavender with red overtones. Clumps spread and can be divided for additional plants. Blooms best in full sun.

Daylilies (*Hemerocallis*). Taller sword-like leaves stand out above the lower plants. Spectacular flowers come in midsummer, when the terrace is in heavy use. Daylilies come in almost unlimited array of colors from creamy white to oran apricot, pink, buff, vermilion, and r with many bicolors.

Plantain lily (*Hosta lancifolia*). There many hostas; this one has narrow pointier leaves than most. Lavender fl ers appear in mid to late summer, leaves, very glossy and deeply veir are the major attraction. Likes shade.

Tulips. In the photograph, you see da pink flowered Darwin tulip 'Clara B This clump of 18 bulbs planted in 1 is reliable annual bloomer. Here par shade reduces flower size, but Mr. Sny finds the numerous smaller bloss seem more natural in this setting.

European mountain ash (*Sorbus aucu ria*). One of Mr. Snyder's favorite sm trees, this ash has finely textured lea grows fast, and has flowers in May June, followed by orange-red berrie August. Fruits can be a problem paving. Tree is susceptible to fireblig

DON NOR

Texture mixture: *Plants are (clockwise, from lower right): Geranium himalayense, Ajuga reptans 'Alba', plantain lily, cushion spurge, daylilies, tulip. Trees are European mountain ash*

xpert picks hardiest odendrons for mountain gardens

ıe Finch Arboretum in Spokane, ıum temperatures in winter average en −10° and −20°. Such cold s considerable damage to the ar- ım's rhododendron collection.

he was arboretum gardener, Paul studied which varieties survive ne's cold (zone 2 in the *Sunset rn Garden Book*). He found that hat have routinely been considered ardy died or at least never looked ast their first seasons.

proper conditions (excellent drain- rotection from heavy winds, ade- watering), Mr. Drew recommends ıs safest for cold-winter areas:

s. *Rhododendron* 'Album Novum', de Neige', 'Catawbiense Album', me Wagner', *R. yakusimanum* s.

'Conewago', 'Ken Janek', 'Pink ', 'Pioneer', 'Roseum Elegans', eam'.

'America', 'Harold Amateis', Zembla', 'Sham's Ruby'.

lers. 'P.J.M.', 'President Lincoln', oo'.

s. 'Purple Gem', 'Purpureum folium'.

conifers are susceptible ock moth infestations

have spruces or firs—especially ones—keep a lookout early this month for signs of the destructive larvae (caterpillars) of the tussock moth. This insect's eggs usually hatch in mountain climates in late May or the first week of June, and the caterpillars immediately begin feeding on the trees.

Because the tiny, fuzzy caterpillars are so small and the treetop branches where they feed are so high, the infestations often go unnoticed.

One indication that the caterpillars are there and chomping away is droppings at the bases of trees, along with bits of fresh green needles. You can spot these warning signs easily if you place a clean piece of white paper on the ground (weigh it down with a rock) and check it after several days.

If you notice the caterpillars while they are ½ inch or less in length, you can handle them by giving the tree a thorough spraying of diazinon, malathion, or sevin.

If your trees are large, you may have to call in a tree service with large-scale spray equipment. If the caterpillars have already exceeded ½ inch, consult a tree service in any case.

Trees treated in time will grow back. A heavy infestation, though, can cause loss of the top portion of a tree.

Choosing vegetables for mountain gardens

When you shop for vegetable seeds, the most important piece of information to check on the packet or in the mail-order catalog is how long the variety takes to ripen. Mountain gardeners succeed best with short-season varieties.

With tomatoes, for example, you can win by planting 'Pixie' or 'Small Fry', each of which ripens in about 50 days. Other tomatoes can take as much as 80 days. Accomplished vegetable gardeners—such as Knobby Brown of Denver, pictured above—follow this practice and enjoy large harvests. □

Denver gardener *Knobby Brown planted seeds of short-season vegetables in early June and had this harvest by mid-August*

JUNE CHECK LIST: *Here is spring-summer action*

☐ **Feed perennials.** Apply 2 to 3 pounds of high-nitrogen fer- lizer per 100 square feet of bed. Vash off any fertilizer that falls on eaves, then water thoroughly.

☐ **Mulch.** Spread a thick layer of compost, leaves, pine nee- les, or other organic matter around lants to slow weeds and conserve ater. In the vegetable garden, use lack plastic mulch, which has the ıme effect—and it retains warmth ı the soil.

☐ **Plant annuals.** Set out trans- plants of African daisy, bach- or's button, calendula, clarkia, eome, godetia, linaria, lobelia, ansies, snapdragons, sweet alys- ım, sweet William, verbena, and olas. When frosts are past, set out ıarigolds and petunias.

☐ **Plant bulbs, corms, tubers.** Get late-summer color by anting tigridia bulbs, gladiolus and ontbretia corms, dahlia tubers.

☐ **Plant for permanence.** It's the best month to plant container- grown or balled-and-burlapped trees and shrubs, plus ground covers.

☐ **Plant strawberries.** If you didn't get to them during bare-root season, plant now from nursery packs or small pots. Pro- vide loose soil, full sun, ample water.

☐ **Plant vegetables.** Sow seeds of beans, corn, cucumber, pump- kin, squash, watermelons. Sow suc- cessive crops of beets, bush beans, carrots, chard, corn, radishes. Set out transplants of eggplant, peppers, tomatoes.

☐ **Prune spring-flowering shrubs.** Remove oldest branches of forsythia, flowering quince, lilac, spiraea, *Rosa hugonis*, weigela. Cut off stems at base; remove about a third of the oldest growth.

☐ **Stake tall plants.** Drive stakes next to dahlias, delphiniums, gladiolas, peppers, tomatoes.

☐ **Thin fruits and vegetables.** Remove smallest apples, apri- cots, pears, plums. Thin weakest beets, carrots, lettuce, turnips. After thinning vegetables, feed with com- plete fertilizer.

☐ **Treat chlorosis.** A common ailment in mountain soils, chlorosis causes leaves to yellow while veins stay green. The cause is a lack of available iron or other mineral. Apply iron chelate or fer- tilizer with iron and trace elements, following label directions.

☐ **Water.** Deep-water established non-native trees, shrubs, and ground covers regularly to establish vigorous roots. Water vegetables in the morning; later watering would slow plants' absorption of day's heat.

☐ **Weed.** Get them out now while they are still small and easy to pull. Weeds steal food, wa- ter, and growing space from desir- able plants.

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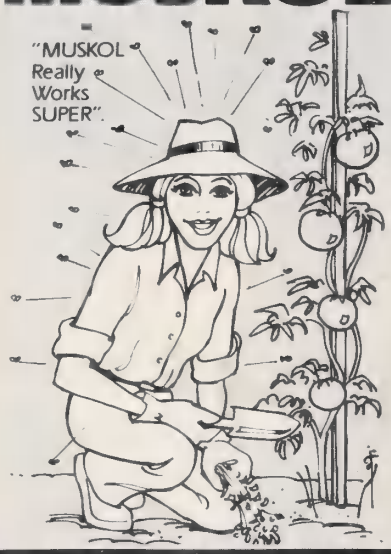

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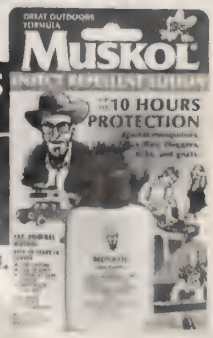

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NORTHERN CALIFORNIA

Stockton. June 4, 5, and 6. Tenth annual plant sale and show presented by the Stockton Cactus and Succulent Society. Place: Sherwood Mall, 5308 Pacific Ave. Sale hours: noon to 9 Friday, 10 to 6 Saturday, noon to 5 Sunday. Show is Saturday and Sunday only, same hours as sale. Admission: free.

Oakland. The Rotary Natural Science Center offers nature walks on some Saturdays and film and slide shows most Sundays at 2 P.M. For information, call the center at (415) 273-3739.

Sacramento. June 5 and 6. Annual show presented by the Sacramento Fern Forum. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 2 to 5 Saturday; 10 to 5 Sunday. Admission is free.

Sunnyvale. June 5 and 6. Show and plant sale by the Peninsula Gesneriad Society. Place: Town Center mall, off Mathilda Avenue between Iowa and Washington avenues. Hours: noon to 6 Saturday; noon to 4:30 Sunday. Free.

Mill Valley. June 6. Annual bonsai exhibition presented by the Kinmon Bonsai Aikokai. Place: Buddhist Temple of Marin, 390 Miller Ave. Hours: 10 to 5. Free. A demonstration of bonsai techniques will be given by Kenneth Sugimoto from 1:30 to 2:30.

Seaside. June 6. Exhibit presented by the Monterey Bonsai Club. Place: Monterey Buddhist Church, 1155 Noche Buena St. Hours: 11 to 5. Free. There will be demonstrations of bonsai techniques at 2 P.M.

Vacaville. June 6. Annual show by the Vaca Valley Bonsai Club. Place: Vacaville Community Center, 1100 Alamo Dr. Hours: noon to 5. There will be a demonstration of bonsai techniques by a bonsai master at 2.

Saratoga. June events at Saso Herb Gardens, 14625 Fruitvale Ave. Reservations are necessary; telephone (408) 867-0307.

June 6. Herb lecture tour of the gardens and a tea-tasting session. Hours: 1:30 to 4. Fee: $5. Bring a cup.

June 12 and 19. Two-session workshop on culture and use of herbs. Hours: 9:30 to 3 both dates. Fee: $30. Bring a cup and brown bag lunch.

June 22. Workshop on creating a wreath of dried flowers and herbs from field and garden. Hours: 10 to 2. Fee: $25 (cludes supplies). Bring a cup and bro bag lunch.

Sacramento. June 12 and 13. Ann show presented by the Sacrame Branch of the American Fuchsia S ety. Place: Iva Gard Shepard Gar and Arts Center (for address, hours, admission, see June 5 listing).

Petaluma. June 16 through 20. An Sonoma-Marin Fair. Place: Fairgrou take E. Washington St. exit from 101. Hours: noon to 10 Wednesday Thursday; 10 to 10 Friday, Satur and Sunday. Admission to the fair: ages 7 through 14, $1.50; 6 and un free; seniors, free on Thursday. Sonoma Marin Garden Club will ex cut flowers.

Belmont. June 18. Flower show sented by the Belmont Garden C Place: Community Center, Twin P Park, 1241 Ralston Ave. Hours: noo 5. Free.

Sacramento. June 19 and 20. An show presented by the Sacramento meliad Society. Place: Iva Gard She Garden and Arts Center (for ad hours, and admission, see June 5 listi

Sacramento. June 26 and 27. Show sented by the Capital Flower Art signers. Place: Iva Gard Shepard Ga and Arts Center (for address, hours admission, see June 5 listing.)

Pleasanton. June 26 through July Annual Alameda County Fair. F fairgrounds; take the Bernal Avenu from Interstate 680. Hours: 10 t daily except Sunday, July 11, 10 Admission on June 26 and 27: $1 fo All other dates: $3.50; ages 6 thr 12, $1. Commercial exhibitors wil their plants to the public at 7 P.M. 11. Exhibits include poultry, cut fl and floral arrangements, and a f garden.

COLORADO

Denver. June 2. Class on basic ca orchids offered by the Denver Bo Gardens, 1005 York St., in Classroo Hours: 9:30 to 11. Fee: member nonmembers, $6.

Denver. Iris events begin with the A ican Iris Society convention on Ju 4, and 5, headquartered at the D Hilton Hotel, 1550 Court Place. Or

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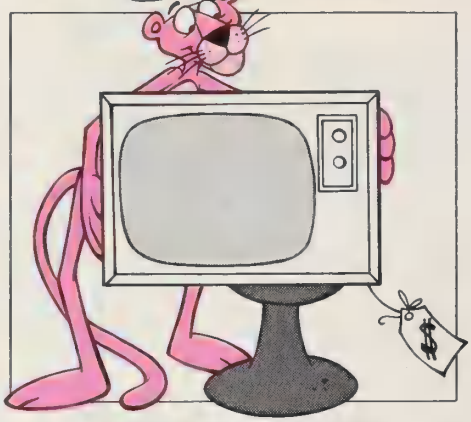

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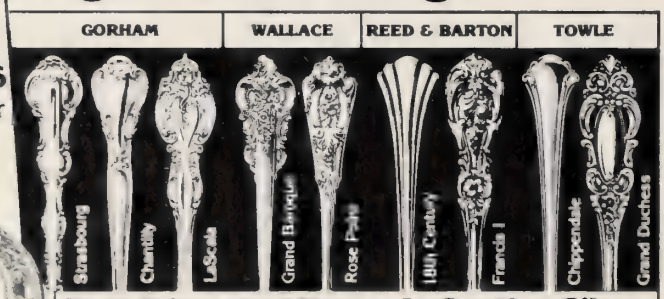

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5, there will be an iris arrangement sho in John C. Mitchell Hall at the Denv Botanic Gardens, cosponsored by t Judges Council of the Colorado Feder tion of Garden Clubs and Region 20 the American Iris Society. Hours: 10 3. Admission to the gardens: $2; age through 16, 50 cents.

The AIS National Convention garden the Denver Botanic Gardens will be full bloom the first week in June. Hou 9 to 4:45 daily. Garden admission listed above.

Denver. June 9 and 10. Class on colle ing and cooking edible plants offered the Denver Botanic Gardens. Hou 1:30 to 4 both days. On Wednesd meet where the High Line Canal cros Belleview Avenue at Birch Street, gather plants; bring plastic bags an pocket knife. On Thursday, meet Classroom B of the gardens for cook and tasting. Fee: members, $10; n members, $15.

Denver. June 12 and 13. Show and s of African violets and their "cousi presented by the Gloxinia Gesner Growers. Place: Mitchell Hall, Den Botanic Gardens. Hours: 10 to 4 b days. Admission to the gardens: $2; a 7 through 16, 50 cents.

Denver. June 15. Walk of Chatfield boretum, a new addition to Den Botanic Gardens. Meet at 9 A.M. in parking lot of the House, 909 York or at the arboretum at the old sch house (enter ¼ mile west of the in section of Deer Creek Road and S 470) at 10 A.M. Fee: members, $2; n members, $5.

Denver. June 19 and 20. Show by Denver Bonsai Club. Place: Mitc Hall, Denver Botanic Gardens. Ho 10 to 4 both days. Admission to the dens: $2; ages 7 through 16, 50 cents.

UTAH

Salt Lake City. June 8, 15, and 22. T day classes in flower arranging and t settings at the Utah Garden Clubs tivity Center, Sugar House Park, 1 E. 2100 South St. Hours: 1 to 3:30 Fee: $2.50 per class.

Salt Lake City. June 9. Tree walk talk with W. Richard Hildreth, dire of the State Arboretum of Utah. Sub oaks—species, varieties, and hyb Meet in front of the Arboretum Ce University of Utah, at 7 P.M. for th hour event. Free.

Salt Lake City. June 10. Shortened sion of the June 9 event—a "brown tour" from noon to 1 P.M. Meet a Park Building on campus. Free.

Salt Lake City. June 13. Show by Utah Rose Society at the activity c (for address, see June 8 listing). H 1 to 5 P.M. Free.

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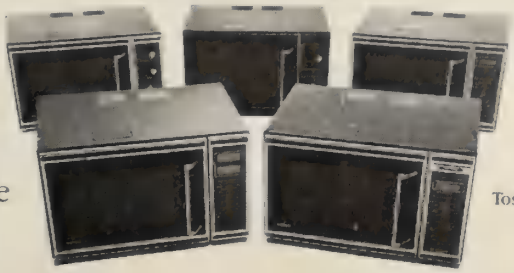

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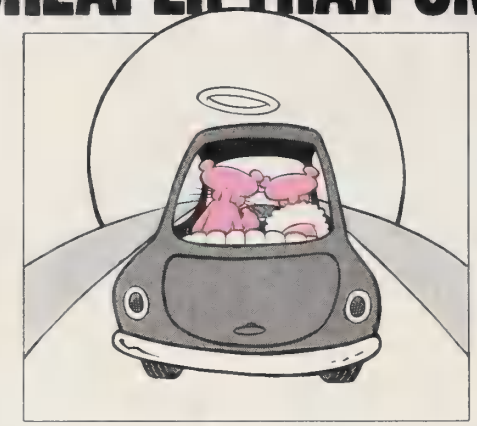

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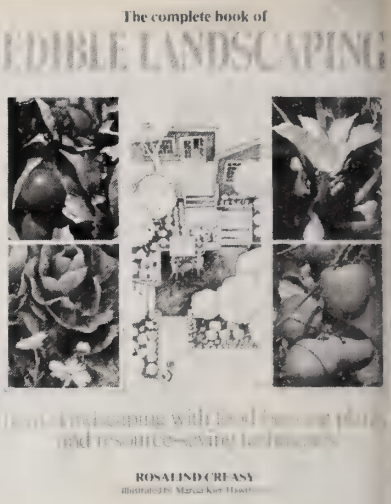

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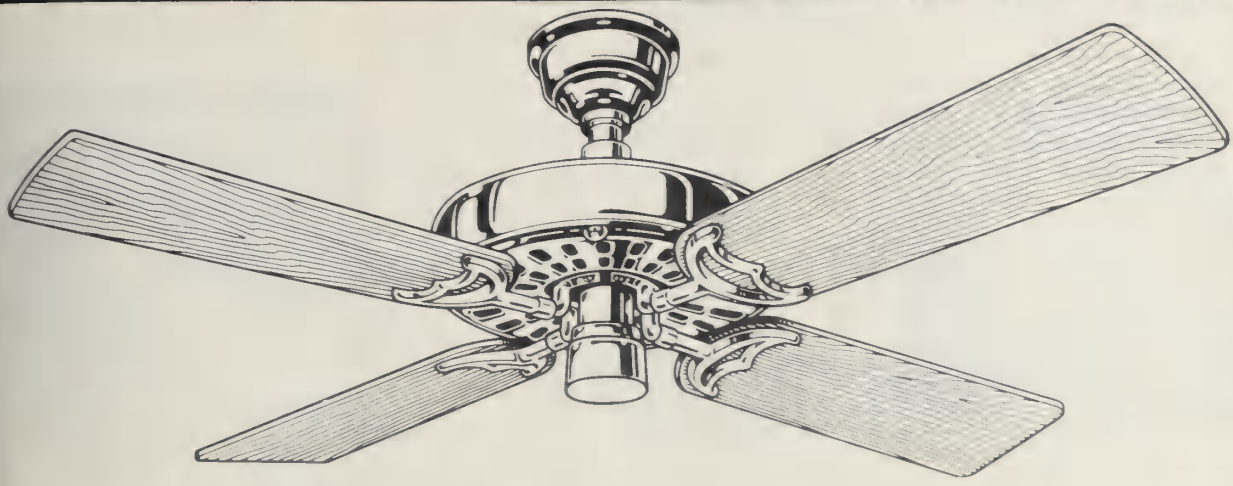
Author Creasy draws on personal perience and the expertise of sev dozen consultants to compile a text is entertaining to read and easy to use

The first half of the book discusses illustrates principles of garden de how and why food plants work in landscape, and how to plan, plant, maintain your own garden. Charts diagrams help you select the right p and tools for the job.

The second half is an encyclopedi 140 food plants, each assigned a 1 gardener effort rating. You learn plant's landscape and culinary use well as how to buy and grow it, an preserve the crop. Named varieties listed, and—quite unusually— order sources are given for each entr

Helpful appendixes include lists of order nurseries, insectaries (source beneficial insects), and tool suppliers

Though it aims at a national audi this book has a decidedly Western fl Unfortunately, the climate zones (on USDA maps) over-generalize ern microclimates. You may wa cross-reference with more specific in the *Sunset Western Garden Book*



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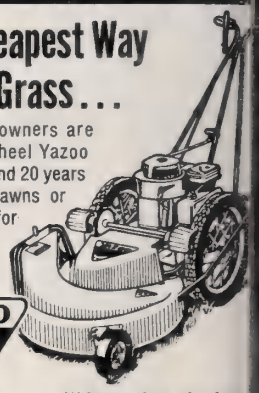

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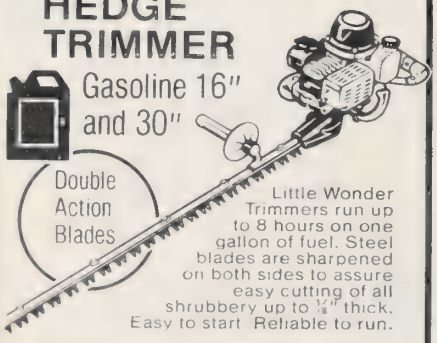

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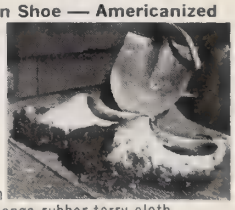

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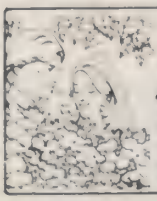

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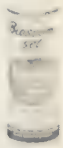

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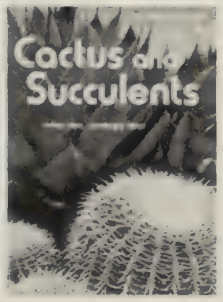

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To save space, strawberries, carrots, onions, and leaf lettuce are planted in beds rather than rows. Tomatoes fill in where peas and lettuce grew earlier, and both peas and tomatoes grow up the same supports. Beans and peas were bush varieties; the only space-eating plant was a trailing pumpkin, which a generous neighbor let trail across the property line.

Watering is mostly done with a single soaker hose running down the center of the bed; as plants mature, the Sullivans add a second soaker hose and move it around as needed. □

MICHAEL THOM

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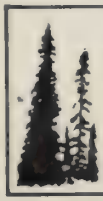

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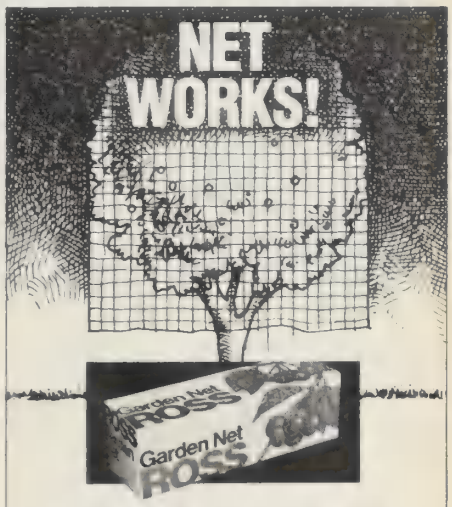

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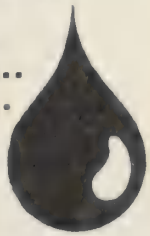

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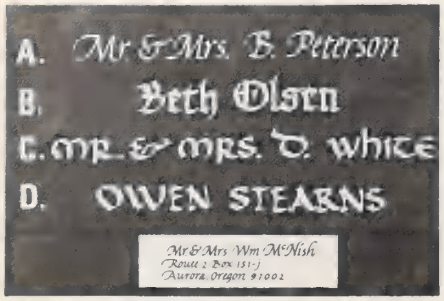

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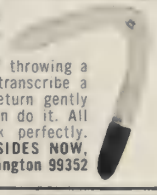

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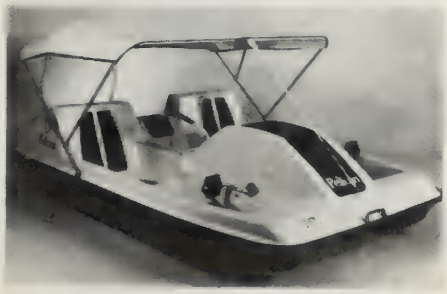

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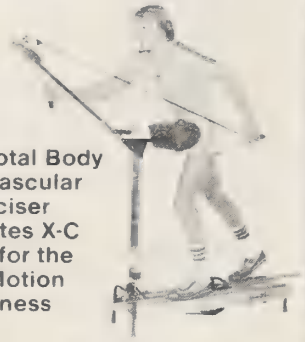

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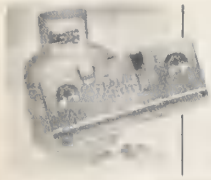

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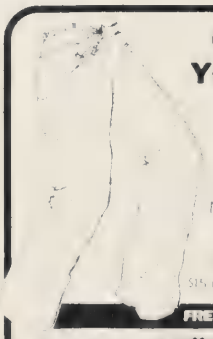

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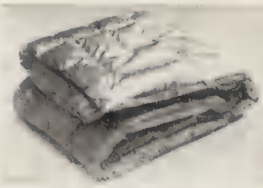

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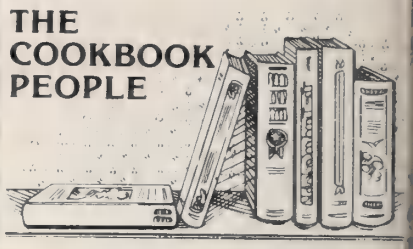

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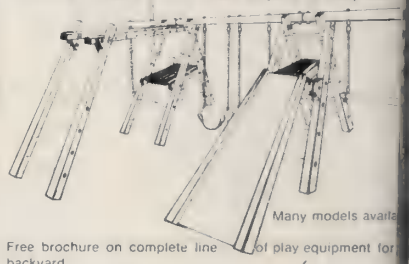

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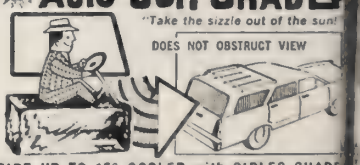

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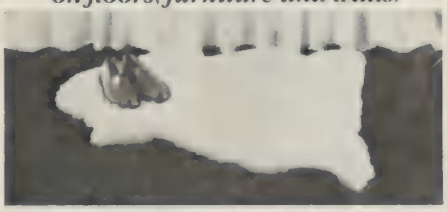

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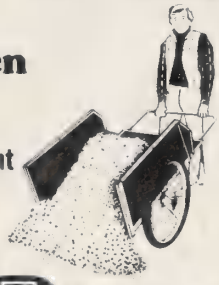

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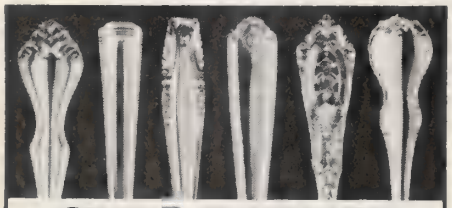

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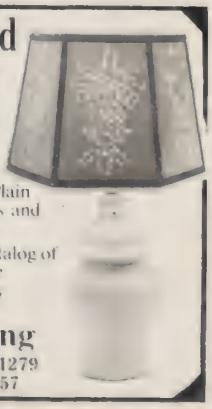

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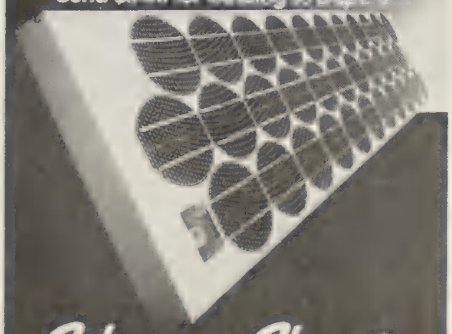

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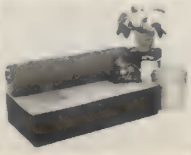

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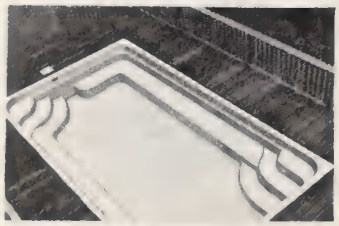

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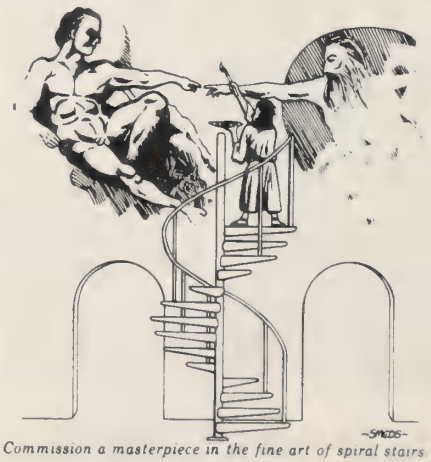

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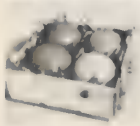

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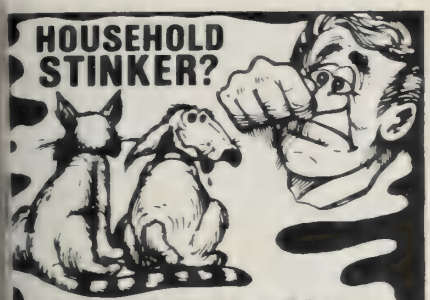

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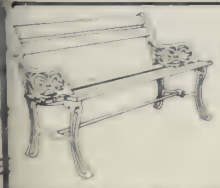

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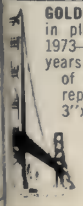

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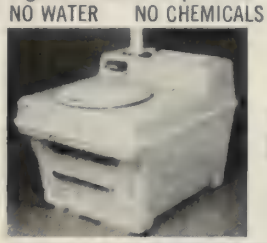

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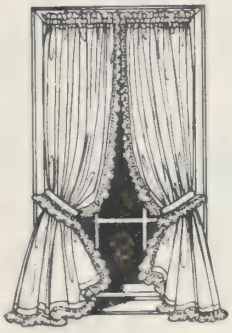

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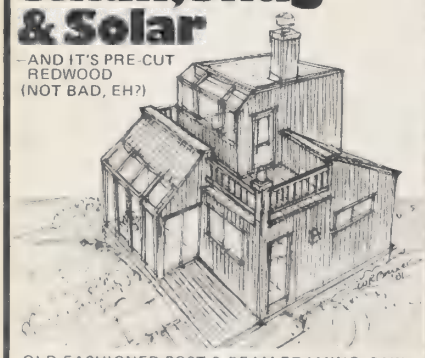

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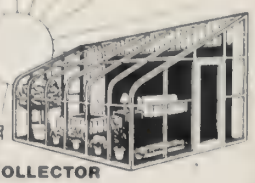

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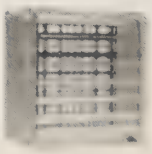

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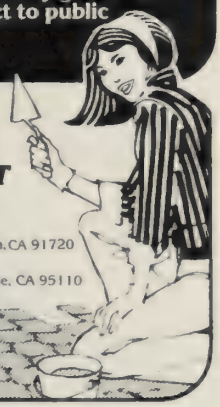

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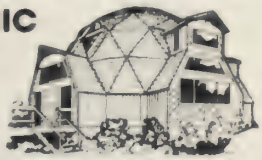

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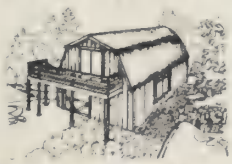

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LETTER FROM *Sunset*

How we eat . . . now, tomorrow

There is no question that the West is leading the country toward simple healthier meals. Westerners eat more fresh fish, more whole-grain brea and more yogurt than the rest of the country. We own more microwa ovens and food processors. We hold more dinner parties, and we a more likely to try ethnic restaurants.

To gain a better perspective of how these trends might affect the way eat 5 to 10 years from now, we recently interviewed a dozen food indu try experts.

"There is so much interest in food these days that it's literally min boggling," says Sacramento grocer and wine merchant Darrell Cor "Just as the renewed interest in wine is datable from about 1960, reviv interest in food is datable from the early 1970s."

According to Jane Armstrong, a food company executive, "Many peop are giving food priority these days as a form of relaxation, a hobby, way to show skills. They are taking more pride in what they are serving

A big factor seems to be the increasing number of working wives—abo 52 percent of the West's households now have two incomes.

Another food executive, Mercedes Bates, believes that "in many hous holds time is now more important than money. And men are shari more of the cooking chores, including shopping. Many enjoy it."

Supermarket buyer-merchandiser Dave Kuri agrees. "Shoppers a clamoring for convenience, but they also want quality. Health foo have moved from the fringe into the mainstream—just look at the pr liferation of 'light' foods and beverages. We even have 'light' corn chi Good junk food: that's an interesting concept."

Quality and nutrition are key factors for Western shoppers, but varie is also important. As Darrell Corti notes, "Twenty years ago we'd s one wheel of French Brie a month. Now there are a dozen different sty and shapes of Brie, and we can sell 200 wheels in a weekend."

"People are sophisticated about food," adds Wolfgang Puck, a L Angeles restaurateur. "They demand quality. It's easier out here becau we have such a variety of readily available fresh fruits and vegetabl People have learned from the Chinese and Japanese to respect veg tables. Now we want them steamed or sautéed, not boiled to death."

Sunset home economist Jerry Di Vecchio believes that the West's t mendously varied ethnic populations have played a major role in shapi our tastes by integrating their national cuisines, cooking techniques, a even kitchen tools into our daily lives. "We don't reserve use of the w for Oriental dishes alone; we use it to stir-fry or steam-cook a variety dishes for everyday meals. Today the wok is as common in our kitche as a good French chef's knife—another ethnic import."

Gourmet food retailer Nancy Van Wyk sums up the Western food a eating differences this way: "It's based on very fresh ingredients fou locally. It incorporates techniques and ingredients of other ethnic c sines. There's a big empha is on lighter foods—natural ingredients simp (and, incidentally, nutritionally) prepared. Men and women just seem be having more creative fun in the kitchen."

Darrell Corti calls it a "joyous anarchy"; several others have called it emerging California or Western cuisine. Time will tell.

WINDOW ON THE WEST: *What, no tomatoes?*

A spring shopping trip to a Los Angeles supermarket yielded these 34 less common fruits and vegetables; only recently have so many become readily available all at one time. The great variety results from the increasing popularity of ethnic foods, the availability from better transport and longer growing seasons. Included in the display are long Mediterranean fava beans, huge Mexican papaya, Japanese long potato, rounded Oriental pears. How many others can you identify?

Photographed by H. Pesin in Stoke-on-Trent, England

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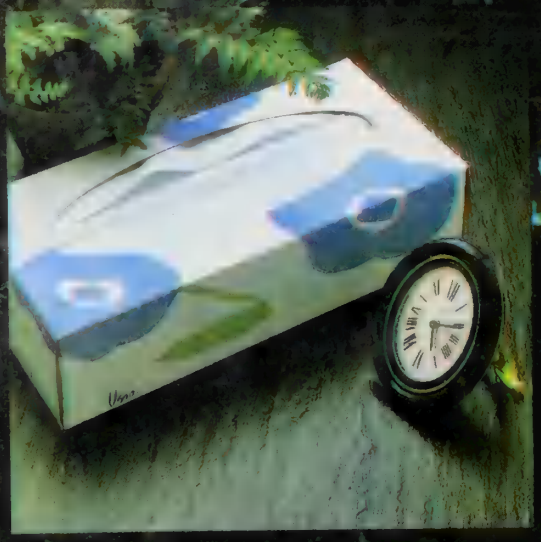

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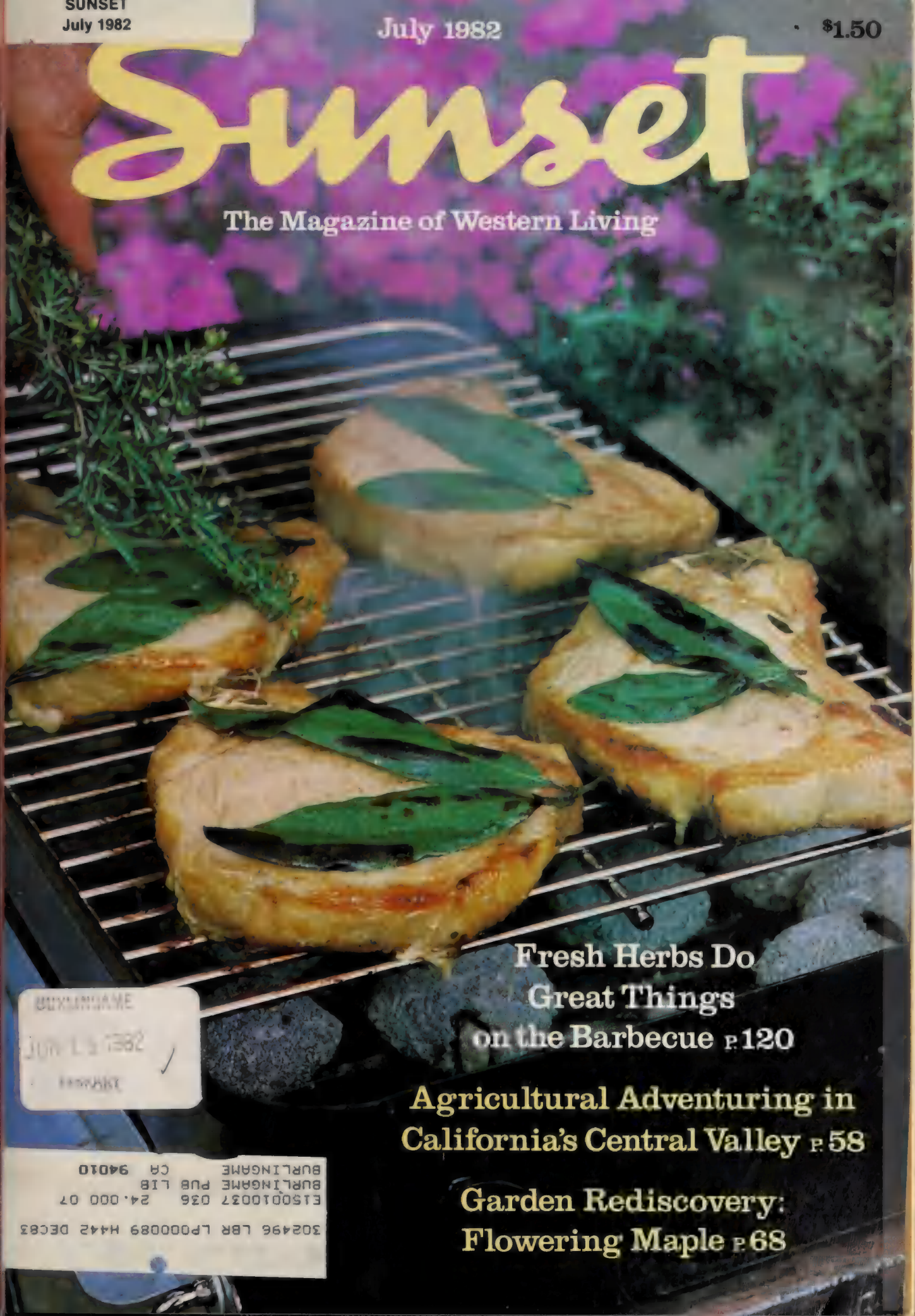

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broccoli, blanched
paragus spears,
cado, peeled, pitted
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3 oz. fresh stringbeans, blanched and sliced in 1½" pieces
½ cup sliced green pepper
1 cup diced celery
4 fresh mushrooms, washed and sliced
8 leaves Boston lettuce
½ cup any Bernstein Italian Dressing
4 tomato wedges
¾ oz. sunflower seeds
½ medium onion, finely chopped

flower and broccoli into flowerettes, wash and blanch, rinse in cold water. Refrigerate to chill. Blanch and stringbeans and slice into 1½" pieces. Refrigerate to chill. Toss cauliflower, broccoli, asparagus, mushrooms, stringbeans, green peppers, celery and onion with dressing. Place tossed salad in bowl lettuce leaves. Garnish with tomato wedges and sunflower seeds. Serves 4.

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THE PACIFIC MONTHLY *

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The Cover Story

Fresh herbs bring tantalizing aroma and flavor to pork chops and other meats and fish cooked on the barbecue. Heat releases the herbs' volatile qualities, which are gently absorbed by the cooking foods. See page 120 for other ways to introduce herb flavor at your next barbecue. Photograph by Glenn Christiansen

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EASTERN

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July travel . . . in and beyond the West

GREGG MANCUSO

Nearly circumnavigating *Lake Chabot, paved pathway serves joggers, cyclists: climb is gradual but noticeable at path's northeast end*

New turf *fronting the water gets a good workout from Sunday quarterbacks; expansion more than doubled greensward*

Stocked yearly *with 57,000 pounds of trout (like this rainbow), lake offers good fishing; at marina you can rent a rowboat like those at right*

Sun-dappled summer days at spruced-up Lake Chabot

The shimmering heat of midsummer provides ample incentive to hover about a water hole—to drop a line, paddle a canoe, or picnic at water's edge. One of the Bay Area's best-known lakes, 315-acre Lake Chabot in Castro Valley, has just undergone a $500,000 face-lift to upgrade boating, biking, picnicking, and parking facilities.

A new dock serves a fleet of 115 small rental boats—canoes, paddle boats, rowboats, and electric powerboats. They rent for $3 to $4 per hour.

You can boat out to some of the more secluded fishing spots along the lake's 8-mile shoreline and try for catfish (limit 20), crappie, and black bass (limit 5) which should be biting eagerly in the

JERRY FREDRICK

Fruitful research: *Sunset reporters Fish (left) and Reese (right) join grape grower in vineyard near Fresno*

Field research in the fields

What is 465 miles long, 30 to 60 miles wide, and flat as an ironing board? It's California's Central Valley—America's richest mass of agricultural land.

From Bakersfield in the south to Redding in the north, travel editors Mary Ann Reese and Peter Fish spent weeks exploring the Valley. Field research took them to quiet rural towns and lively county fairs, and to farmers' markets and roadside stands.

If you'd like to share this summer's Valley harvest, the report on page 58 can guide you to the bounty. □

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warmer water this month; abundant bu reluctant trout (limit 5) lurk in deeper cooler water.

Bait, tackle, boat rentals, and fishing li censes (park district permit costs $1.5 per day or $15 per year, state licens costs $6.25 plus inland stamps) are avail able at the marina coffee shop, ope daily 6 A.M. to 7 P.M.

Cyclists can glide along lake's edge where a newly repaved 4-mile trail head out from the dam, goes past the marina and up to trail-end vistas at Lakeviev Road. Just west on Lakeview Road an 1 mile from the lake itself is Anthon Chabot Campground (formerly calle Las Cumbres), set in a grove of eucalyp tus. Tent camping costs $5 per nigh trailer hookup sites are $6 per night; n reservations.

Parking fee is $1 weekdays (machine re quires four quarters) or $1.50 weekend (booth manned). To get there from Inte state 580 take the 150th-Fairmont Driv exit in San Leandro, head west on Fai mont, then right on Lake Chabot Road.

International theater festival comes to Denver July 7 to 31

The first World Theater Festival is pe haps the biggest theater event in Denve history—18 plays from 13 nations, an some 114 performances. Companie from Australia, Brazil, Great Britai Greece, Yugoslavia, and other countrie will participate in the event, which ru July 7 to 31.

Held at the Denver Center for the Pe forming Arts, the festival will spill ove three theaters: The Stage (616 seat thrust stage, reserved seats), The Spac (450 seats, arena stage, some reserve seats), and The Lab (200 seats, prosc nium stage, open seating). In a circu style tent, a British company will pe form mime, music, and mummery fro July 17 to 25.

In many cases, plays will be done in th acting company's native language—*M dea* in Hebrew by the National Theat of Israel, *The Arbitration* in Greek b the Amphi-Theatre of Greece (play s nopses included in program).

Tickets range from $7 to $20, but buye of four or more get a 20 percent di count. A $100 "express card" admits yo to all 18 plays. Half-price "hot tix" wi be available to students and seniors 3 minutes before curtain. For tickets or schedule, call the box office at (303) 89 4100, or write to World Theater Festiva Denver Center for the Performing Art 1050 13th St., Denver 80204.

Logan, Utah, salutes the West

This summer marks the 10th anniversa of Logan's Festival of the America West, and it's going to be a bigger sho than ever. On July 30 and 31, and fro

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FRANK JENSEN

Wrist wrestling *and other frontier pastimes are demonstrated at Logan fair*

August 2 through 7, it will celebrate the arts, trades, and amusements of the 19th-century West.

The festival is renowned for its historical pageant (nightly at 8), where a cast of 200 recounts in song and dance the settling of the frontier. New this year are a big Western Art Invitational with works by more than 60 artists and a crafts fair where you can watch early lacemaking, gunsmithing, woodcarving, and other techniques. There are also quilt and agricultural shows and a competition in frontier skills. Fair hours are 2 to 9. Pageant admission is $5, $3 for children under 12. Fair admission is $3.50, $2 for children under 12.

The campus of Utah State University in Logan, about 85 miles northeast of Salt Lake City, is the setting for the festival.

More national park seminars

Rocky Mountain National Park in Colorado offers the country's oldest continuing program of national park seminars. If you are interested in the type of field seminars described on page 50 of the June *Sunset*, you may be interested in ones offered by the park.

Beginning June 28, seven five-day seminars taught by experts will be given. Subjects include Nature Writing, Alpine Tundra, Ecology of Furry Things, Rocky Mountain Ecosystems, and Geology.

Each seminar costs $100 per person. Maximum enrollment is 20, and college credit is available. Several weekend seminars ($30) will also be offered.

For details, write to Seminars, Rocky Mountain National Park, Estes Park 80517, or call (303) 586-2371.

For travel planners, a July 1982 check list

Adventure weekends out of L.A. For three or four days, groups of up to 24 go sailing, whitewater rafting, skiing, ballooning, or on a covered wagon trip. Beginners are welcome, children are not. Cost of $210 to $389 includes transportation, activity, meals, lodging; guest fees or annual membership dues are extra. Write to Weekend Escapes, 522 Wilshire Blvd., Suite G, Santa Monica, Calif. 90401; (213) 394-8112.

Train tour in Britain. An 11-day escorted tour by first-class train departs every second Saturday from London's Paddington Station, goes as far as Skye in Scotland. Sightseeing is by bus. "Classic old world" hotels and most meals are included in price of $1,150. Write to Express International, Box A, Main St., Saltillo, Penn. 17253; (800) 458-3606.

Whitewater rafting in Nepal. From October 1982 through April 1983, 8- to 16-day tours offer river excursions in kayak, paddle boat, or big oar boat. Prices of $1,190 to $1,960 include all meals and equipment and stays in four-star Katmandu hotel, tents, and thatched hut of a jungle lodge. Write to Osprey International, 6109 Fish Hatchery Rd., Grants Pass, Ore. 97526; (503) 479-4269.

Tours for nonsmokers. A visit to the Knoxville, Tennessee, World's Fair (October 17 to 21) and a tour to the British Isles (September 18 to October 3) are among trips organized in smoke-free buses. For more information, send a stamped, self-addressed business envelope to Mildred Post, Nonsmokers Travel Club, 8928 Bradmoor Dr., Bethesda, Md. 20817.

Telephone information in Japan. The Japan National Tourist Organization has just inaugurated the Japan-Travel Phone system. From 9 to 5 daily, insert a 10-yen coin in either blue or yellow telephones outside Tokyo and Kyoto, dial 106, and tell operator you have a collect call for the Tourist Information Center. An English-speaking staff member will answer travel questions. Make local call (red phones) to T.I.C. offices in Tokyo (502-1461) and Kyoto (371-0480). Leaflets about the system are in airports, hotels, and JNTO offices in the U.S.

New address. U.S. representative of Europe's Interhome, mentioned in our March 1982 check list, is now Villas International, 213 E. 38th St., New York 10016; $5 catalog no longer available. □

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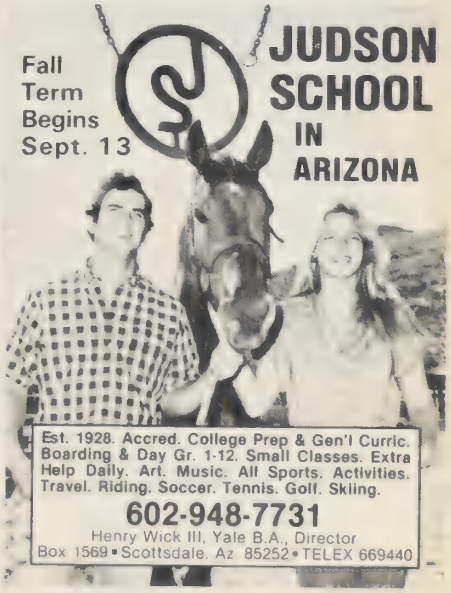
Schools



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Sunset School & Camp Directory

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INDEX OF DIRECTORIES

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beginning page 10

WESTERN GROCERY DIRECTORY
beginning page 123

GARDEN CENTER
beginning page 169

SHOPPING CENTER
beginning page 172

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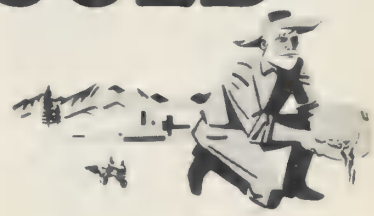

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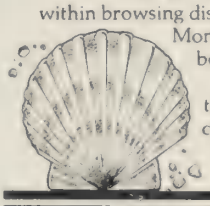

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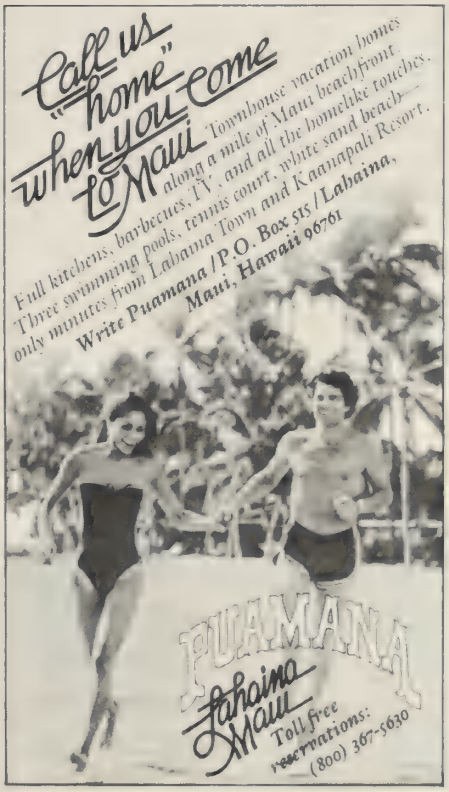

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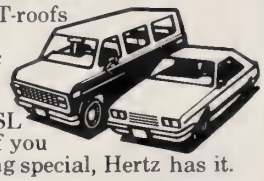

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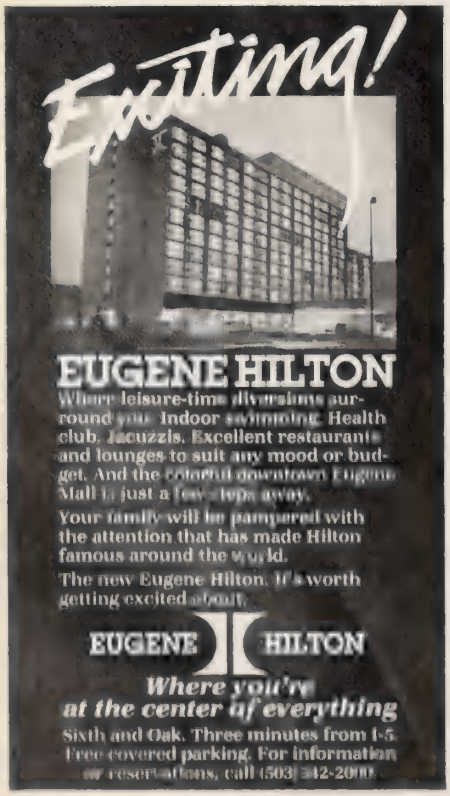

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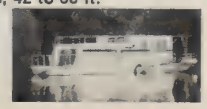

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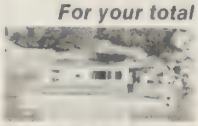

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Untitled *two-part composition in acrylics by David Salle was painted in 1981*

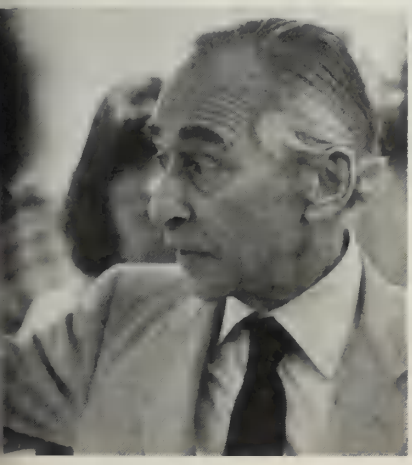
In Aspen, 25 years of contemporary ar

Flag on Orange Field, *painted in 1958 by Jasper Johns, is encaustic (wax plus pigment) on canvas*

From mid-June through August 7, a g lery is the star of the show at the Asp Center for the Visual Arts. An exhibiti there of 33 works by 33 artists hon the 25th anniversary of New York's L Castelli Gallery.

The show can be viewed as a primer contemporary American art. In 19 Leo Castelli opened his first gallery, show the works of new artists, many whom—including Jasper Johns, R Lichtenstein, Robert Rauschenberg, a Frank Stella—have become key inf

GLENN CHRISTIANSEN



Gallery owner *Leo Castelli's interest in contemporary American art led him to upport new artists, many now well known*

ces in 20th-century American art. As ll as paintings in diverse styles and ediums, you'll see sculptures and other orks utilizing neon, concrete, plastics, el, glass shards, and car parts.

s unusual for a gallery to have sur- ed 25 years showing only progressive styles, and the Aspen show celebrates stelli's achievement. (The show will o be seen in four other places, includ- the Portland Center for the Visual ts from October 22 to December 3.)

ecial events in connection with the stelli exhibition include a Sunday eve- ng film-and-lecture series ($20) on ma- American artists who have emerged ce the '60s; dates are July 11, 18, 25, d August 1, from 7 to 9. A symposium ed "Castelli and Curators: Critics and llectors" ($5) will be held July 24 from o 6. For details and ticket availability, l (303) 925-8050.

e Aspen Center for the Visual Arts is sed in a recycled hydroelectric plant 590 N. Mill Street; it's open noon to 6 esday through Sunday. Admission is for adults, $1 for students. □

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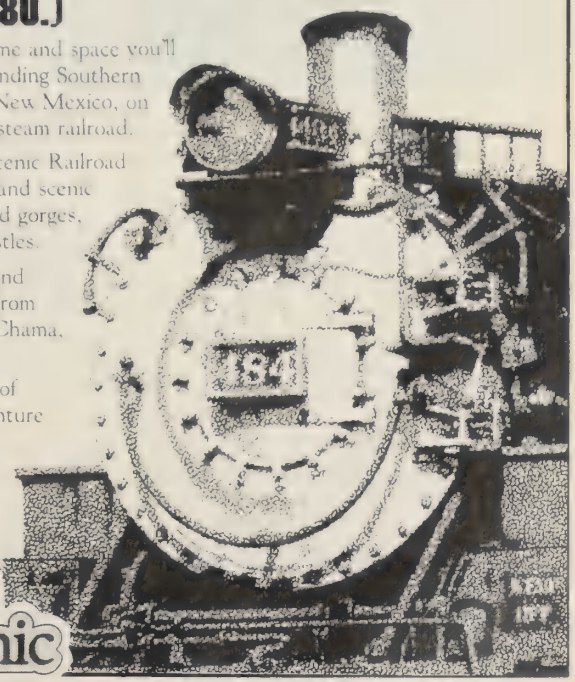

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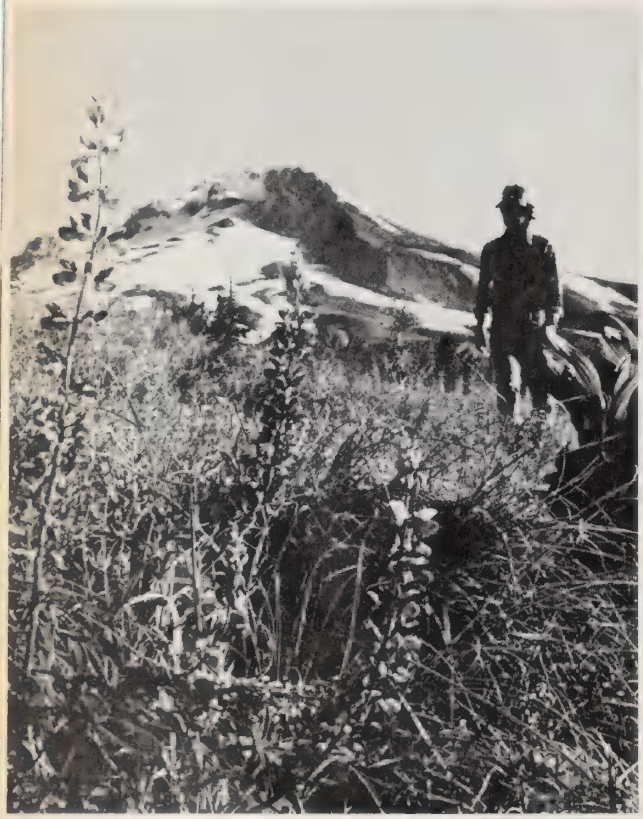
Far above valley clouds, *picnickers prepare to dig into lunch spread at edge of snowfield*



MICHAEL THOMPSON

Wildflower-filled *meadows make pleasant hiking along Pacific Crest Trail just minutes west of Timberline Lodge*

Bikini skiing on Oregon's Mount Hood. New lift takes you to year-round snow at 8,500 feet

What midsummer foolishness is thi downhill skiing in July—in cutoffs ar bikinis? Scoff if you like, but that's th scene on the slopes above Timberli Lodge on Oregon's Mount Hood, whe a new lift takes experienced skiers up a year-round snowfield at 8,500 feet.

Getting in on the fun is easy, wheth you want to schuss down the mounta or just watch. And with so much goi on around venerable Timberline Lodg even nonskiers can find plenty to warra a visit. The resort is about an hour's dri east of Portland via U.S. Highway 26.

New lift sparks summer ski boom. Wi 20-minute lines not uncommon on sun mer weekends, there's no doubt that th new Palmer lift is a hit. The 1⅛-mil long lift runs from the mountain's 7,00 foot level up 1,500 feet to the snowfie atop Palmer Glacier.

By winter's end, 20 feet of snow cov the glacial ice. This season's snowpack the best in five years. What keeps it fro melting under the summer sun? "Natur refrigeration," answers Timberline ope ator Richard Kohnstamm. The glaci beneath the snowfield cools the sno enough to let it survive the summer. A the resort helps with intensive groomin

Nevertheless, after extended warm p riods, patches of underlying ice begin show up, and by summer's end the snov field shows some shrinkage. But in ear July, it will measure more than a mile

Bikini-clad skier *carves turn in corn snow on the mile-wide, mile-long Palmer Snowfield high on Mount Hood*

length and width, giving skiers one great long run, without obstacles, entirely above timberline. You can ski it in a series of wide traverses, or blast straight down the 17½° slope. This is a relatively steep and intimidating run; beginners are not allowed on the Palmer lift.

What's the skiing like? At its best, summer skiing on Hood is akin to spring skiing elsewhere: "corn snow" in the morning; slow, slushy snow by midday. Summer ski hours, reflect this: lifts start at 7:30, stop at 1:30 (weekends, 8 to 2).

Delightful as sunshine can be, you might find better skiing on cloudy, cooler days, which aren't uncommon on this moody, 11,235-foot volcano. "It can snow on the Palmer almost any day of the year," cautions Kohnstamm. Bring warm ski clothing as well as lighter garments.

Whether it's sunny or not, world-class sunburns can blossom almost instantly because of the altitude and snow glare. Bring protective creams, sunglasses, perhaps a hat and neck scarf.

An all-day lift ticket is $12 for all ages, and—until July 10—allows you to ski on both the lower Magic Mile run (Timberline's oldest) and the Palmer. Thursdays, two can ski for the price of one.

From July 10, you can ski only the Palmer, but must still ride the Mile chair lift up from the lodge. Sightseers are welcome on the Mile lift; tickets are $4.

Skis, boots, and poles rent for $10 a day at the new Wy'east day lodge, where you can arrange a downhill or telemark lesson ($15, including lift ticket).

Lodge touring, Mount Hood exploring. When skiing's done, you can try Timberline Lodge's outdoor pool, walk a stretch of the Pacific Crest Trail right behind the lodge, fish a nearby lake or stream, or wander mountain back roads.

At a U.S. Forest Service information center in the day lodge, you can pick up maps and learn which trails are snow-free or where to see wildflowers. Rangers lead lodge tours daily, every hour between 9 and 5. Nature walks are often offered between 9 and 2.

On an intermittent schedule (check at the USFS center), you can also see rangers demonstrating some of the woodcrafting skills that were used in the construction of Timberline Lodge, built by hand by the WPA in 1936-37 and now a historic landmark. Note the beams hewn from whole logs with adz and broadax, cedar shingles split with a froe, decorative carvings, massive stone fireplaces—and the hand-hooked rugs and other hand-woven textiles.

A new generation of artisans called Friends of Timberline is helping restore the lodge's treasures. Half the rooms have been refurbished, and work is progressing in public areas.

The Friends are also supervising decoration of the recently opened Wy'east day lodge, which will quarter craft fairs, art exhibits, concerts, and folk music. For a schedule, write to Friends of Timberline, Government Camp, Ore. 97028.

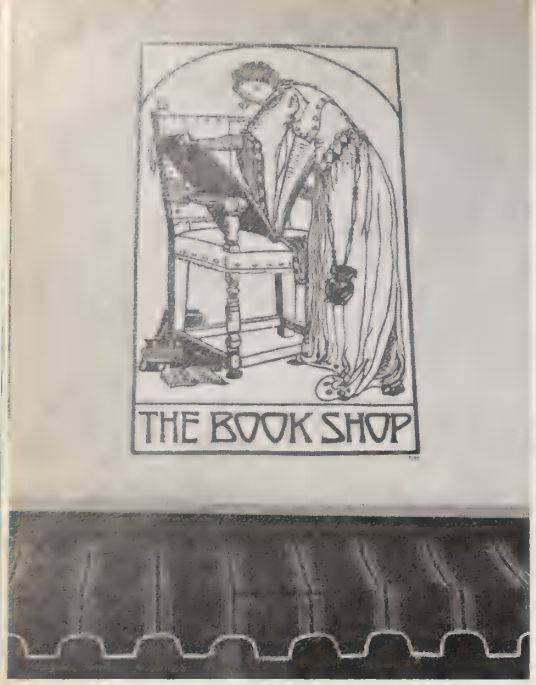
During the busy July 4 weekend, there will be two pro ski races (July 3 and 4), a torchlight parade down the mountain at 8 P.M. on Sunday, and dancing to band music in the day lodge from 7 P.M. on Saturday and Sunday. Weather permitting, an outdoor beer garden and barbecue are also planned.

Other events include an astronomy fair (July 16 and 17), Canadian weekend (July 31, August 1), children's storytelling (August 14 and 15), Scottish pipers and dancers (August 28 and 29), and a Swiss weekend (September 25 and 26).

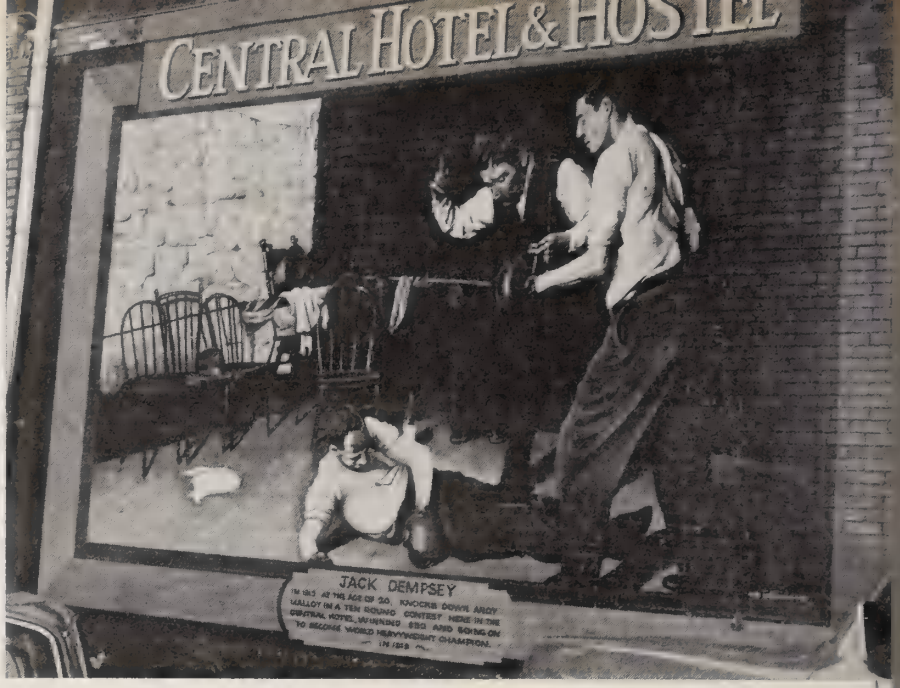
Lodging, meals, camping. Rates for Timberline's 57 rooms range from $42 to $85 per night double, $30 without bath; write to Timberline Government Camp 97028 or call (503) 272-3311. Day visitors will find a good restaurant in the main lodge, plus a cafe in the day lodge.

Other resorts offer alternatives. Largest is Rippling River, the former Bowman's, 20 miles west of Timberline on U.S. 26, near Welches (210 units from $57 to $193). Write to Rippling River, Welches 97067, or call (503) 622-3101.

For more information, stop at the ranger station in Zigzag, on U.S. 26 about 12 miles before the Timberline turnoff. It's open daily except holidays 8 to 4:30. □



Like an antique *bookplate, sign above awning is shop's subtle calling card*



Dispute continues *whether Jack Dempsey boxed Andy Malloy in basement of Central Hotel & Hostel; there's no doubt Jack won*

Victorian couple's fare *is pizza and ice cream in mural of Cable Car Pizza*

Woman of her time *is now the proud figurehead for contemporary furnishings shop on Main Avenue*

Street art walking in historic Durango

Dots on map *mark wall murals; see text for suggested walking tour route*

Rough, tough Durango of Western novel fame wears an entertaining façade these days: a striking mix of street murals and shop signs, all easily seen on a short, leg-stretching walk around downtown.

If you'll be journeying through southwestern Colorado, consider a stop in Durango. You'll find the usual restaurants and motels, as well as the venerable Strater Hotel (be sure to look in on its 19th-century lobby) at Main Avenue and Seventh Street.

The murals have been in progress for about four years. Individual businesses commission the paintings. Artist Tom McMurray did four; he plans to do another this summer.

To see the street art, you can start anywhere on the route (see map). We began on the southwest corner of 10th Street and Main with the Dempsey-Malloy fight mural.

Walking south on Main, look up: the shop signs are real-life Pop Art sculptures and graphics describing the businesses within. Turn right on Seventh Street, then left on Camino Del Rio past a vibrant advertising mural on the west side of the street. Turn left on Sixth and go a long block to the Galloping Goose gift shop to see *Main Street, Durango*, a painting that duplicates an 1890 photograph of the townscape.

Walk east a block on Sixth: at E. Second Avenue you'll find the *Ice Cream Parl* wall painting at Cable Car Pizza. A fe steps away, Butch Cassidy and the Ho in-the-Wall Gang are depicted larger th life on a wall in the Sundance Salo (live country swing music, dance ba moose head, and relics).

Go north on Second a block, turn left Seventh, and you'll be in front of Lost Pelican Restaurant graphic signed by T. J. Brauer. Turn right Main to return to your starting point.

HOW TO SAVE YOUR LIFE AND THE ONE NEXT TO YOU

OVERCOMING YOUR PSYCHOLOGICAL RESISTANCE TO SEAT BELTS MAY BE THE KEY.

The facts are startling. Experts estimate that almost half of all automobile occupant fatalities and many serious injuries might have been avoided if the people had been wearing seat belts. That's because most injuries occur when the car stops abruptly and the occupants are thrown against the car's interior or out of the car. Belts reduce this risk.

Many people say they know the facts, but they still don't wear belts. Their reasons range all over the lot: seat belts are troublesome to put on, they are uncomfortable, or they wrinkle your clothes. Some people even think getting hurt or killed in a car accident is a question of fate; and, therefore, seat belts don't matter.

If you're one of those people who don't use belts for one reason or another, please think carefully about your motivations. Are your objections to seat belts based on the facts or on rationalizations?

Here are a few of the common rationalizations. Many people say they are afraid of being trapped in a car by a seat belt. In fact, in the vast majority of cases, seat belts protect passengers from severe injuries, allowing them to escape more quickly. Another popular rationalization: you'll be saved by being thrown clear of the car. Here again, accident data have proved that to be untrue—you are almost always safer inside the car.

Some people use seat belts for highway driving, but rationalize it's not worth the trouble to buckle up for short trips. The numbers tell a different story: 80% of all automobile accidents causing serious injury or death involve cars traveling under 40 miles per hour. And three quarters of all collisions happen less than 25 miles from the driver's home.

When you're the driver, you have the psychological authority to convince all of the passengers that they should wear seat belts. It has been shown that in a car, the driver is considered to be an authority figure. A simple reminder from you may help save someone's life.

Another common myth: holding a small child in your arms will provide the child with sufficient protection during a crash. The safety experts disagree. They point out that even during a 30 mph collision, a 10-pound child can exert a 300-pound force against the parent's grip. So please make sure Child Restraint Systems are used for children who aren't old enough to use regular seat belts.

If you're an employer, encourage your employees to wear seat belts. At GM, we've made it a matter of policy that everyone riding in company-owned vehicles is expected to wear lap and shoulder belts.

We heartily support the program initiated by the National Highway Traffic Safety Administration to encourage the use of seat belts. So please fasten your own belt, and urge your family and friends to follow your example. Even the best driver in the world can't predict what another driver will do.

This advertisement is part of our continuing effort to give customers useful information about their cars and trucks and the company that builds them.

GM

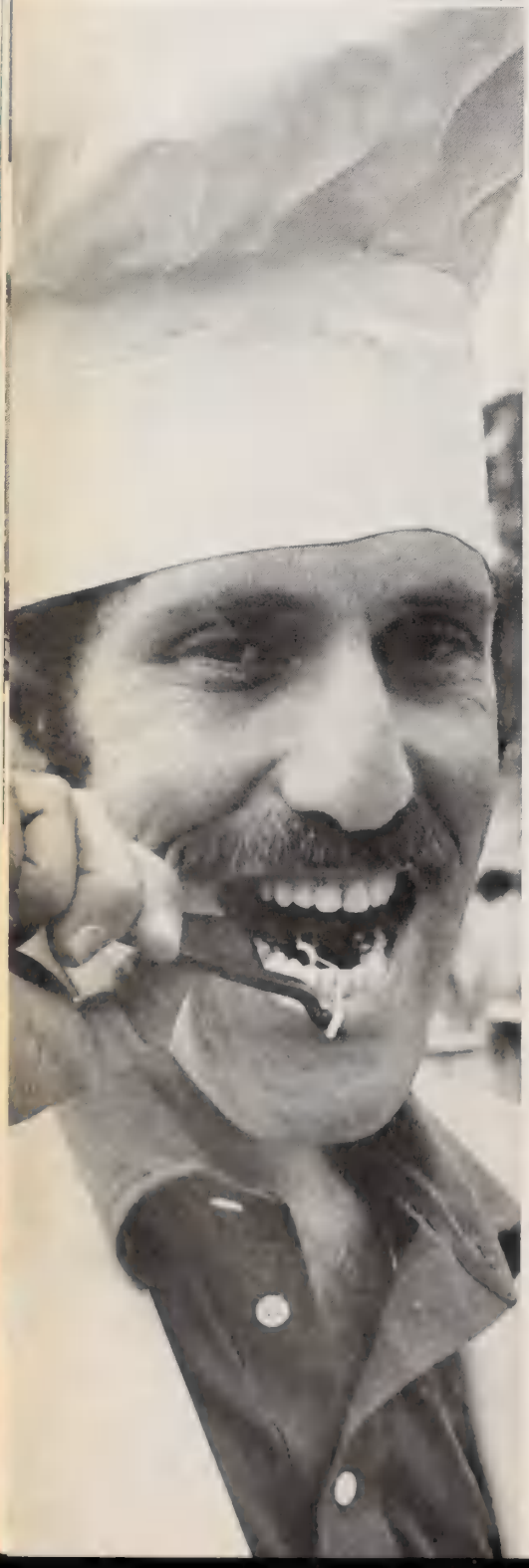
General Motors

Chevrolet • Pontiac
Oldsmobile • Buick
Cadillac • GMC Truck

Curling snake *of accordion-pleated paper intrigued these youngsters at last year's Tinker's Fair*

Heels over head, *inventor demonstrates gymnastic moves on somersault swing that allows forward or backward somersault*

Madcap inventor *shows off safeguarded flossing tool, while wearing chef's hat to promote device for snuffing barbecue coals*
PETER CHRISTIANSEN



Inventors' day in Berkeley. Some groups invite you to join

From simple gadgets to technological breakthroughs, you'll have an opportunity to view a wide range of discoveries and talk with inventors at the third annual Tinker's Fair in Berkeley on Sunday, July 18.

Sponsored by the Lawrence Hall of Science at the University of California, the fair combines displays, discussions, and films. Last year, two dozen inventors exhibited such devices as a vertical-axis windmill and an electronic sensor for gauging ripeness of watermelons. Several exhibitors invited visitors to try out their inventions.

This year the theme is "Inventing the Future." There will be a panel on inventing, patenting, and marketing.

Hours are 1 to 5; admission is free. The site is the Lawrence Hall plaza. Take Grizzly Peak Boulevard to approach the hall on Centennial Drive. For more information, call (415) 642-5132.

Nine groups for Western inventors

Some exhibitors belong to organizations created to help novice as well as experienced inventors. If you're interested in learning more, consider one of the groups listed. Dues are annual unless noted.

California. *California Inventors Council, Inc.*, Lawrence J. Udell, Box 2732, Castro Valley 94546; (415) 652-3138. The 600-member council sponsors conferences and exhibitions, publishes a quarterly newsletter. Dues: $24.

Inventors of California, Norman C. Parrish, Box 158, Rheem Valley 94570; (415) 376-7541. This 100-member group assists inventors by evaluating projects, advising on testing and marketing. Group meets about four times a year, publishes a monthly newsletter. Dues: $35.

Inventors Workshop International, Arnold Robles, 1781 Callens Rd., Ventura 93003; (805) 642-7557. This 1,400-member California-based group evaluates ideas, publishes a magazine and guidebooks. Each chapter has two monthly meetings—one for members, one open to the public—and issues a newsletter. Dues: $100 first year, $55 renewal.

Colorado. *Affiliated Inventors Foundation, Inc.*, John T. Farady, 501 Iowa Ave., Colorado Springs 80909; (303) 635-1234. The 100 members either hold patents or have patents pending. Membership is by invitation only.

National Inventors Cooperative, Morton Levand, Box 6585, Denver 80206; (303) 756-0034. In this 30-member inventor cooperative and affiliated marketing company, each inventor assigns the rights to one of his inventions to the group; members share in any profits. Monthly meetings are open to the public for the first half-hour. The group publishes a newsletter. Initiation fee $250, dues $50.

Hawaii. *Inventors Council of Hawaii*, George K. C. Lee, Box 27844, Honolulu 96827; (808) 595-4296. Its 250 members seek to develop inventive talent in Hawaii. There are monthly meetings, a newsletter. Dues: $15.

Nevada. *Nevada Innovation and Technology Council*, Jerry Jeremy, 1755 E. Plumb Lane, Suite 152, Reno 89502; (702) 784-5203. Fifty-member organization serve as clearinghouse for Nevada inventors, sponsors seminars and conferences, publishes a newsletter. Dues: $10.

Utah. *Intermountain Society of Inventors and Designers*, Executive Director, Box 1514, Salt Lake City 84110; (801) 882-4943 or 278-9249. The society's primary purpose is to educate its 100 members on inventing and patenting. Monthly meetings feature talks by successful inventors or marketers. Membership is drawn from the Intermountain West. Dues: $10.

Washington. *Inventors Association of Washington*, David Sires, Box 1725, Bellevue 98009; (206) 455-5520. Its 24 members work to develop, protect, finance, and market inventions. Monthly meetings, a newsletter. Dues: $25.

NEW NISSAN SENTRA

YOU NEED THIS ROOM. YOU NEED THIS MILEAGE. YOU NEED THIS CAR!

You need an Ultra-Mileage wagon with room and power at a price you can handle. You need the new Nissan Sentra.

YOU NEED THIS ROOM.

The new Nissan Sentra comfortably fits five, and a week's vacation, into 106 cubic feet of head, leg and elbow room. This surprising interior space means more stretch-out room, more usable cargo area than any other wagon with mileage this high.

YOU NEED THIS ZOOM.

A new 1.5-liter overhead-cam engine delivers one horsepower for every 29.7 pounds of Nissan Sentra —a ratio you'll appreciate when changing lanes. Handling? Front-wheel-drive traction and rack-and-pinion steering help Nissan Sentra conquer hills, demanding curves.

YOU NEED THIS VALUE.

We believe this wagon has more to offer than anything in its price range. There's even an optional sunroof no leading economy wagon offers at any price. That's the kind of solid value you expect from the worldwide Nissan Motor Co. Ltd. And it's yours today, just where you've come to expect it: at your Datsun dealer.

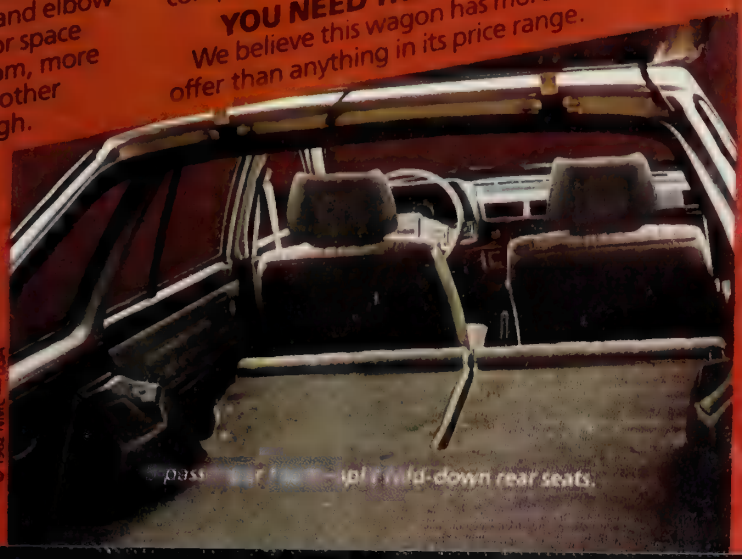
47 EPA EST. HWY | **33** EPA EST. MPG

*EPA estimates for comparison, with standard 5-speed. Actual mpg may differ depending on speed, trip length and weather. Highway mpg will probably be less. California mpg lower.

DATSUN
WE ARE DRIVEN

Product of NISSAN

NISSAN



© 1982 NMC—USA

Deluxe hexagonal etagère is provided as part of the collection

Tiny flower bouquets to collect, to cherish, to add new beauty to your home . . .

The Flowers of the Year

PORCELAIN MINIATURES COLLECTION

Twelve individually handcrafted porcelain sculptures—marvelous works of art in miniature—yours for just $22.50 each.

Please order by July 31, 1982.
Limit: One collection per order.

The magic of finely detailed miniatures has always fascinated collectors—perhaps more today than ever before. Now, at a time when miniatures are reaching new heights of popularity, Franklin Porcelain is proud to present *The Flowers of the Year Porcelain Miniatures Collection.*

This intriguing collection makes it possible for you to have a year-round garden in your home abloom with favorite flowers from every month of the year . . . 12 lovely varieties in all, each captured forever at the height of its beauty. And you can display this miniature garden on a small table, a mantel piece or in a corner cupboard.

Each month of the year is represented in the collection by a captivating bouquet, and each bouquet is an incredible example of old-world craftsmanship. For every petal and leaf of these whimsical bouquets will be painstakingly sculptured *by hand,* then *individually assembled* in a porcelain container. Next, the bouquet will be personally painted by a skilled artist.

Shown actual size

The result is a collection of original sculptures in miniature that is amazing for its remarkable attention to detail, captivating for its charming approach to an ever-popular subject matter. And because each bouquet is individually handcrafted in the Capidomonte region of Italy by skilled porcelain masters, each is a unique work of art.

Dainty bouquets to charm the collector

If you'd like to start a collection of fine miniatures, these sculptured porcelain bouquets are a perfect place to begin. Their intricate detail is fascinating, the floral theme has universal appeal, the designs are captivating and the quality of the sculpture is impeccable. The established collector will also find it hard to resist the intrinsic appeal of these dainty miniatures. In fact, arranged on an end table or grouped on the deluxe étagère that is included as part of the collection, *The Flowers of the Year Porcelain Miniatures Collection* will enchant all who see it.

Because each bouquet in the collection is so different from the others, your friends may think you acquired them one at a time over a period of many years. But you can obtain this collection far more easily and conveniently. It will be sent to you at the rate of one bouquet each month. However, the bouquets are available *only* as a collection and *only* from Franklin Porcelain, with a limit of one collection per order.

Affordably priced—just $22.50 each

The price for each bouquet is a modest $22.50 to be billed on a monthly basis. This favorable price is *guaranteed* for the entire collection. To add to your enjoyment, a booklet describing the flower portrayed will accompany each bouquet. A Certificate of Authenticity will also be provided with each collection.

Each bouquet is individually sculptured, assembled and painted by hand.

Since it will take time to craft these porcelain miniatures, the subscription application below should be signed and mailed to Franklin Porcelain, Franklin Center, Pennsylvania 19091 by July 31, 1982.

© 1982 FP

SUBSCRIPTION APPLICATION

The Flowers of the Year
PORCELAIN MINIATURES COLLECTION

Please mail by July 31, 1982.
Limit: One collection per order.

Franklin Porcelain
Franklin Center, Pennsylvania 19091

I wish to subscribe to *The Flowers of the Year Porcelain Miniatures Collection,* consisting of twelve porcelain flower bouquets, each a different original design individually crafted and painted by hand. A deluxe hexagonal étagère will also be provided as part of the collection.

I need send no money now. The bouquets will be sent to me at the rate of one each month and I will be billed $22.50* for each bouquet, prior to shipment.

**Plus my state sales tax and $1. shipping and handling*

Signature _____
ALL APPLICATIONS ARE SUBJECT TO ACCEPTANCE.

Name _____
PLEASE PRINT CLEARLY

Address _____

City _____

State, Zip _____

198

Fly Canadian Pacific.

Nonstop to the Canadian Pacific.

It's high time you tested the waters. Took in the mountains. Shopped the cities. And basked in the beauty of British Columbia.

With our 2 daily nonstops to Vancouver from San Francisco and 2 more from Los Angeles, getting there couldn't be easier.

Leaving it all behind is the hard part.

Call your travel agent or CP Air, 1-800-426-7000.

CP Air
Canadian Pacific Airlines

Spindly legged *lunar landing module i*

AMFAC HOTELS. ONE GOLDEN IDEA AFTER ANOTHER.

A world-class beach on a world-class island deserves an appropriate hotel. Hence, The Waiohai. Come experience this exquisite new resort on Kauai's fabled Poipu Beach.

The Waiohai
Kauai

Amfac Hotels . . . one good idea after another.

For reservations call your travel agent or (800) 227-4700 from California (800) 622-0838

Space history and future in the high desert

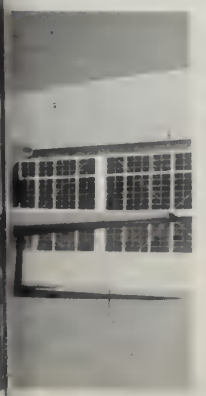
CHAD SLATTERY

e retired craft parked at Dryden

ırrounding NASA's Hugh L. Dryden light Research Facility near Edwards ir Force Base is what author Tom 'olfe describes as "terrain that evolu- ɔn left behind." It is flat, dry, high-des- t country, sparsely populated and ıobstructed for hundreds of miles—a ɜrfect place to fly high-speed experi- ental aircraft or to land an orbiter re- rning from space.

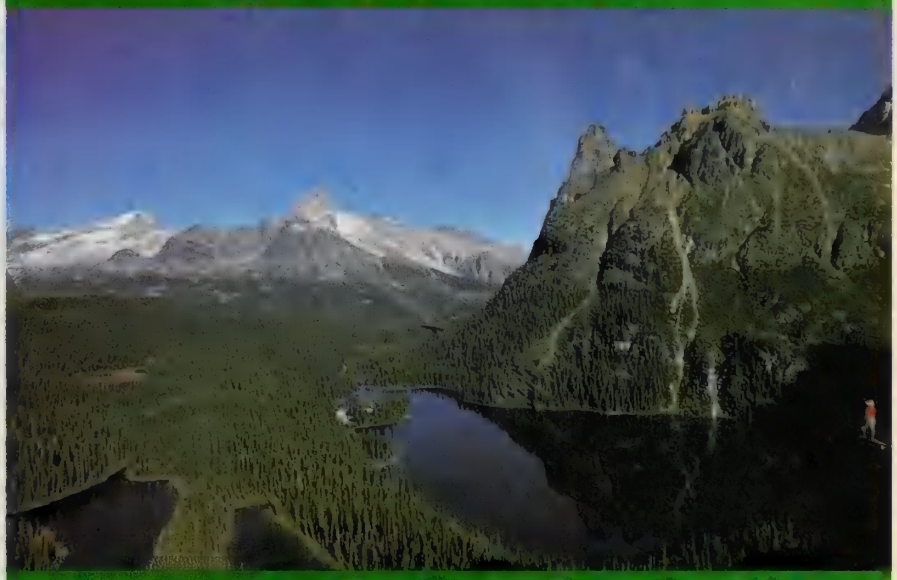
nd in fact, that is precisely what goes ı at the Dryden Facility, an 85-mile ive north of Los Angeles.

ou can see some of these aircraft, in- uding the test orbiter *Enterprise,* by



Enterprise test orbiter *at Dryden will be used as design model for construction of future space shuttle launch site at Vandenberg Air Force Base*

Fly Canadian Pacific.



Nonstop to the Canadian Pacific.

In British Columbia, the only things crowding our cosmopolitan cities are towering mountains. Bustling marinas. Broad sandy beaches. And some of the warmest welcomes you'll find anywhere in the world.

And it all starts on 2 daily CP Air nonstops to Vancouver from San Francisco or Los Angeles.

Call your travel agent or CP Air. 1-800-426-7000.

CP Air
Canadian Pacific Airlines

AMFAC HOTELS.
ONE ROMANTIC IDEA
AFTER ANOTHER.

After dinner and dancing . . . an evening stroll along Poipu Beach. Then perhaps a toast to Kauai . . . as night turns this world-class resort into a million-star hideaway.

The Waiohai
Kauai

Amfac Hotels . . . one good idea after another.

For reservations call your travel agent or (800) 227-4700/from California (800) 622-0838

Enjoy your fall vacation this year in Old West Durango, Colorado, and witness the spectacular beauty of Nature's autumn artistry. Our mountain change-of-colors season starts in September and lasts until snowfall, usually middle November. The weather is pleasantly cool, dry and sunny, with brisk evenings.

Ride in comfort aboard the famous narrow-gauge train, and in modern tourbuses, as they carry you into the splendor of a Rocky Mountain autumn. See the ancient cliff dwellings and ruins of Mesa Verde National Park and other historic landmarks. Enjoy Durango's excellent motels and hotels, and our great variety of fine eating establishments.

Group, party, family or individual: we'll help you with tour reservations and lodging. Write or call today:

Old West Durango's Color-Change Season
P.O. Box 2587
Durango, CO 81301
303/247-0312

MAIL THIS FOR A FREE OLD WEST DURANGO RECREATIONAL MAP & BROCHURES

Send me information about Old West Durango and the beautiful Change-Of-Colors Season.

(PLEASE PRINT CLEARLY) SUS-282

Name _____
Address _____
Town, State & Zip _____
Area Code _____ Daytime Phone _____

PLUS INFORMATION ABOUT OUR EXCELLENT MOTELS, HOTELS & DINING SPOTS

SEE THE ROCKIES CHANGE THE COLORS — ANCIENT RUINS OF MESA VERDE

CHAD SLATTERY

Model of space shuttle, *belt buckles, posters, and T-shirts can be bought at visitor center's gift shop*

taking the center's free 1½-hour tour offered at 10 and 1 Monday through Friday.

Prototypes and "hangar queens"

At the start, you'll be shown a 25-minute film on the history of flight research.

Then you'll walk through two hangars housing aircraft used in current testing. You might see the sleek-nosed AD-1, a lightweight plane with a scissoring wing, or several minisize remote-piloted aircraft, prototypes of future high-performance airplanes.

Outside is the star attraction: the *Enterprise*—prototype for the space shuttle *Columbia*. The 120-foot *Enterprise* was designed to simulate the *Columbia's* approach and landing. She made eight "flights" bolted to the back of a carrier Boeing 747, and five more "free flights" lifting off the carrier and gliding to earth at 200 mph. Though the windows of the *Enterprise* are sealed, you still get a great close-up view of the dimensions of the actual shuttle craft.

The final part of the tour takes you through a yard of so-called hangar queens—retired craft that once flew important experimental flights but will never go aloft again. Among these birds is a model moon landing craft used to train astronauts in the *Apollo* lunar lander program. At tour's end is a small aeronautics museum and gift shop.

Call before you go

No reservations are needed for groups under 10, but tours are not given for a couple of weeks before and after a shuttle landing. To check, telephone (805) 258-3311, ext. 221.

From Bakersfield, take State Highway 58 about 60 miles southeast to the town of Mojave. Go south on State Highway 14 for 13 miles to Rosamond Boulevard, turn left—east—and follow Rosamond 19 miles past the Edwards Air Force Base complex. Turn right on Lilly Avenue and follow signs to the facility. □

JAMAICA

More than you bargained for.

Jamaica is a land of serendipity. Drop in to buy a straw hat or a bunch of bananas, and find yourself dancing to Mr. Kelly's accordion. Walk along a beach, and discover a waterfall foaming into the sea. Drive into the mountains, and find a cool green world a mile above the sea. Follow a farm fence, and happen upon an 18th century manor house, complete with Palladian windows and shady verandas. Go to Jamaica with someone you love, and discover that you're both more wonderful than you realized.

Make it Jamaica. Again.

Jamaica Tourist Board

SEE HOW THE OTHER HALF PLAYS.

Come to Hawaii's finest resort under the sun. The Westin Wailea located on the island of Maui.

By day, you can golf on three beautiful courses. Try your backhand at the Tennis Center, which features 11 Laykold courts and 3 grass courts. Or even soak up the sun at our pool or on our beach.

By night, dine in style at the Award-winning Raffles', known for its continental cuisine and exquisite wine list. And for the night owls, try out your dancing shoes at Lost Horizon.

The Westin Wailea features elegant rooms, private lanais, and round the clock room service.

So, pamper yourself and indulge in the experience of a lifetime. At the Westin Wailea. For reservations or further information, call your Travel Agent or **800-228-3000.**

THE WESTIN WAILEA
Maui

PRINCESS CRUISES
The Magnificent Adventure

Circle the Pacific in '83.
Depart Los Angeles March 26. Sail to enchanting South Seas isles. Tahiti. New Zealand, Australia, Bali, Singapore, Manila, Hong Kong. On to intriguing China, Japan, Honolulu. 70 days round trip, or choose a segment. Registry: British. See a travel agent or send for our '83 Cruiseguide. Princess Cruises, Dept. SCP72, 2029 Century Park East, Los Angeles, CA 90067.

South Pacific/Orient · Alaska · Transcanal · Mexico · Caribbean

Naturalist-led trip *takes you by canoe across placid waters of Canadian refuge*

Bird-watching by canoe in B.C.

Cradled between timber-blanketed mountains, southeastern British Columbia's sheltered Creston Valley is a major stopover for migratory birds traveling along the Pacific Flyway and a year-round haven for scores of species. Here 16,000 acres of marshes, lakes, and meadows have been set aside as the Creston Valley Wildlife Refuge. The sanctuary is about a 3-hour drive northeast of Spokane.

In six refuge units, you can hike, camp (50 sites), or canoe (six marked put-ins). The hub of activity is the Interpretation Centre, 5 miles west of Creston on B.C. Highway 3. Open daily from 9 to 5 until October 11, it offers exhibits, slide shows, guidebooks, and maps; a limited number of binoculars and birding guides are available for check-out.

You can take a self-guiding tour along a trail fringed by cattails and willows. A longer hike (allow an hour) up to Lone Pine Hill leads to valley overviews.

Perhaps the best way to see the refuge and its birdlife is on a free naturalist-led canoe trip (starting each morning in July and August at the center). Paddles and life jackets are provided. The 2-hour paddle takes you close to many birds (240 species have been recorded here).

In summer, look for the bufflehead and ruddy duck, hooded merganser, and raptors such as sharp-shinned hawk and Cooper's hawk. As your canoe glides silently into tree-shaded inlets, you might spot several rarer members of the owl family: the barred owl, the great gray, and the saw-whet.

In fall, squadrons of Canada geese, white-fronted geese, and whistling swans patrol the skies; you can call the center at (604) 428-9383 to find out peak migration periods. □

Spider Veloce

The reasons for buying an Alfa Romeo Spider Veloce are equally distributed between the quality of the car and the personality of the driver. On the one hand, the Spider Veloce is a finely balanced showcase of race-proven engineering whose net practicality makes it an excellent value. On the other hand, drivers who know and love driving find that it's just plain fun to drive.

For good reason. The Spider Veloce starts, goes, stops and corners fast. It even looks fast just sitting there. It has an aluminum-alloy DOHC engine and five speed transmission. The Bosch L-Jetronic fuel injection ensures instant, smooth power. The 4-wheel power assisted disc brake system will decelerate you back to zero in an amazingly short, straight line. And the Spider Veloce's suspension is refined to the point that most expert drivers consider handling to be the most outstanding of its outstanding characteristics.

At this point, we'd like to mention that the Spider Veloce is also gorgeous. The classically simple and elegant Pininfarina exterior does exactly what outstanding styling should do, namely stand out. The interior is a combination of Pininfarina style and common sense.

But it won't be until you're behind the wheel that you'll feel the Alfa Romeo history. And the magic will really take over. We're sure you'll agree with us. This is one car that brings a whole new meaning to the old expression "it practically sells itself."

The GTV 6 2.5 Coupé

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Diesel-powered *locomotive pulls passengers in open-air cars through park to museum. Entry building behind train is replica of Santa Clara Valley tank house*

Ride the train to the tank house ...at San Jose's history town

Oldest municipality in California, the city of San Jose (founded as a Spanish pueblo in 1777) has seen many of its historic neighborhoods disappear over the years. But one surprising island of history survives at the south end of Kelley Park: the San Jose Historical Museum, a town of relocated structures (rescued from demolition) and reconstructed buildings that echo the city from the 1870s through the turn of the century.

While you can drive to the museum, you might prefer to take the park's open-air train. The Southern Pacific Coast Railroad, modeled after a narrow-gauge line that once wound through the Santa Cruz Mountains, stops at the museum station platform at 15-minute intervals.

Spread over 16 acres are some dozen structures, including the 1909 Banca d'Italia, built by San Jose native Amadeo Peter Giannini (founder of the Bank of America) and the 1870s Umbarger House (a fine example of carpenter Gothic style). Inside are period furnishings and antique items.

Headquarters for the museum are in a crisp reconstruction of the Pacific Hotel (circa 1880), which displays artifacts, paintings, and photographs that trace San Jose's roots from Costanoan Indian days through the 1920s.

Sharing the first floor of the hotel is O'Brien's Candy Store, reputedly "the first place to serve ice cream and sodas west of Detroit in 1878." On weekends, you can buy a cone or sundae.

The museum complex is open daily in summer. Hours are 10 to 4:30 Monday through Friday, noon to 4:30 on weekends. Admission is $1 for ages 19 and over, 50 cents for children 3 to 18. For details on guided group tours and the docent program, call or write to the museum at 635 Phelan Ave., San Jose 95112; (408) 287-2290.

From U.S. 101, exit west on Story Road; turn left on Senter Road and follow signs to the museum. From Interstate 280, exit on 10th Street; turn left on Keyes Street, then right on Senter. Weekend parking fee is $1. Round-trip train fare between Happy Hollow Park and Baby Zoo and the museum is 75 cents. □

Horse-drawn *rolling stock is on view in and around replica of 1888 livery stable*

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Marsh walking around San Francisco Bay

Nine wetlands welcome bird watchers, nature explorers

At Coyote Hills, *naturalist holds decaying alkali bullrush root, explains marsh food chain. Visitors stand on boardwalk bridging marshla*

JERRY FREDRIC

BILL ROSS

Marsh explorers *skirt water's edge at south end of San Francisco Bay*

DAVID STUBBS

It's 7 A.M. at Arrowhead Marsh, *a perfect time to enjoy naturalist-led bird-watching on the boardwalk*

'he humble salt marsh, once regarded as a wasteland, is at ıst being seen as a valuable natural resource. The West 'oast's largest marsh habitat is along San Francisco Bay; it ıpports myriad waterfowl and acts as a vital filtering system gainst Bay pollutants.

'irst-time marsh visitors find silence and not much scenery. ut pause a while and you'll hear the tide trickling through ıe marsh grasses and a symphony of bird songs.

Jntil recently, this marshland was being filled over or diked ff, until its 300 square miles had been reduced to 75. Thanks ɔ the Bay Conservation and Development Commission, ɔrmed in 1965, unregulated marshland filling and diking was topped. Now you can visit two newly opened marshes, hike round seven more, and tour four nature centers.

Vhat lives in the marsh

Iarshes here are unique wetlands in that they contain no trees et have the vegetation denied mudflats. Constantly subject to

KENNETH W. GARDINER

Elegant and graceful, *great blue heron, great egret, and snowy egret pose at Palo Alto Baylands Nature Preserve while waiting for a fish dinner*

tidal action, the plants must be not only hydrophytes (water plants) but also halophytes (able to grow in saline soil).

Most marine life in the Bay depends on the marshes and mudflats for its sustenance, either directly, or indirectly by feeding upon other marine life so nourished. Marshes are extraordinarily fertile, containing some 30 main plant species dominated by cord grass, salt grass, and pickleweed. As the tides move in and out over these plants, the plants trap nutrients and some pollutants and reoxygenate the water.

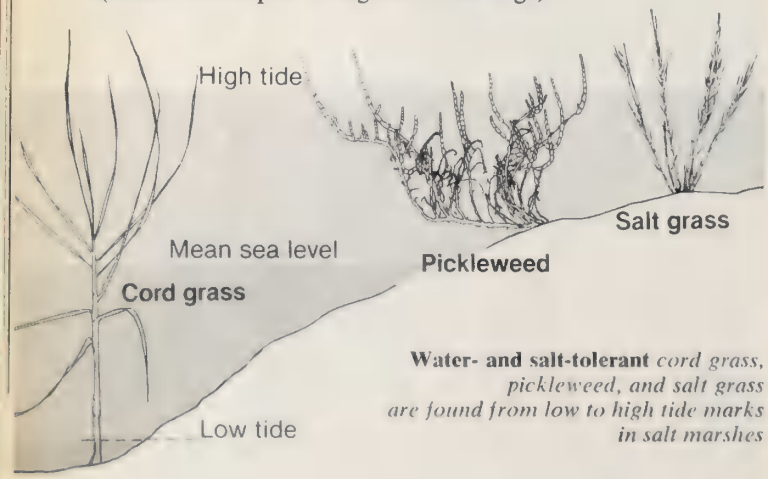
At low tide, the bird-watching can be superb, with sighting of the great blue heron, the swooping marsh hawk, and the graceful white-tailed kite. Finicky avocets often dance stilt-legged while the elusive brown rails hide among the grasses.

The intrepid marsh walker. The well-prepared marsh walker should dress warmly and wear boots; binoculars are a must for bird-watching, as is a good field guide book. At dusk, many marsh dwellers come down to settle, and sightings are better.

Since marsh vegetation is deceptively fragile, stay on paths and boardwalks. You can join guided marsh and bird-watching walks at two spots: Palo Alto Baylands Saturdays and Sundays at 2, and San Francisco Bay National Wildlife Refuge Saturdays and Sundays at 1. Good low-tide bird-watching days at other marshes are early mornings the weekends of July 10 and 24. Two helpful guides are *Birds Along the East Shore of San Francisco Bay* and *Guide to Salt Marsh Plants*. For a copy of both, send $2.50 to the East Bay Regional Park District "Marshes," 11500 Skyline Blvd., Oakland 94619.

From north to south, here are nine marshes open to the public (unless otherwise noted, all are open daylight hours):

Martinez Regional Shoreline, end of Ferry Street, Martinez. This 300-acre park has a ferryboat fishing pier, picnicking, play areas, and ball fields next to a small but bird-lively marsh (there's a bike path along the marsh edge).



Water- and salt-tolerant *cord grass, pickleweed, and salt grass are found from low to high tide marks in salt marshes*

Point Pinole Regional Shoreline, west end of Atlas Roa Pinole. Jutting into San Pablo Bay, this park covers 800 acr of land and 1,200 acres of water. You take a tram ride (2 cents) out to the point and long fishing pier. Crescent-shap Whitell Marsh is a magnet to birds, offering a sheltered, lu haven; a short path edges the marsh. Parking costs $1.50.

China Camp State Park, along N. San Pedro Road, S Rafael. Its 1,500 acres include varied habitats of wood lo meadows, and an extensive salt marsh—home for numero shore and water birds. The park provides fishing acces picnic areas, and a few hiking trails.

Elsie B. Roemer Bird Sanctuary, south end of Shoreli Drive, Alameda. This patch of marshy shore supports a live bird population in marsh and mudflat.

San Leandro Bay Regional Shoreline, access at the S Leandro channel off Hegenberger Road and off Doolitt Drive, Oakland—turn east at the Swan Way lighted interse tion. Walk or bicycle in to the recently opened 60-acre Arro head Marsh (part of the 650-acre park), which offers a boar walk for bird viewing, a fishing pier, picnicking.

Hayward Regional Shoreline, end of W. Winton Avenu Hayward. Opened last fall, its 1,500 acres include one of th largest marsh restoration projects in the West. As plants gra ually become reestablished, birds are returning to the r claimed salt ponds. Walk ½ mile from the parking lot to th marsh area and continue 1½ miles on levees, over bridges.

Coyote Hills Regional Park, on Patterson Ranch Road o Newark Boulevard, Fremont. The park's 1,021 acres inclu a self-guiding trail over an attractive boardwalk throug brackish and fresh-water marsh. Bike paths and hiking tra take you to the salt marsh area. Call (415) 471-4967 for wee day youth, family, and evening campfire programs. Picnic the interpretive center (open daily 9 to 4:30), which hous bird and Ohlone Indian displays. Parking costs $1.50.

San Francisco Bay National Wildlife Refuge, east end Dumbarton Bridge, Newark. This is the granddaddy, 22,000-acre refuge with some 15 miles of trails overlookin and through the marsh. A new bridge system reaches a sel guiding marsh trail, and the handsome interpretive center the site of walks, slide shows, and marsh habitat displays. A the refuge's Alviso Center, at the east end of Grand Boul vard, groups can join in marsh seminars; for reservation call (408) 262-5513. Center hours are 10 to 5 daily.

Palo Alto Baylands Nature Preserve, end of Embarcade Road, Palo Alto. Its 120 acres include walking trails and boardwalk through the marsh area. Interpretive center is ope Wednesday through Friday 2 to 5 P.M., Saturday and Sund 10 to noon and 1 to 5. Call (415) 329-2506 for information free weekend movies, slide shows, and nature walks.

"Kon Tule II" *(made of marsh tules) sailed in 1981, now is on display at Coyote Hills*
JERRY FREDRICK

Drops of marsh water *are prepar for magnifier viewing. Environmenta class is at Alviso Cente*
BILL RO

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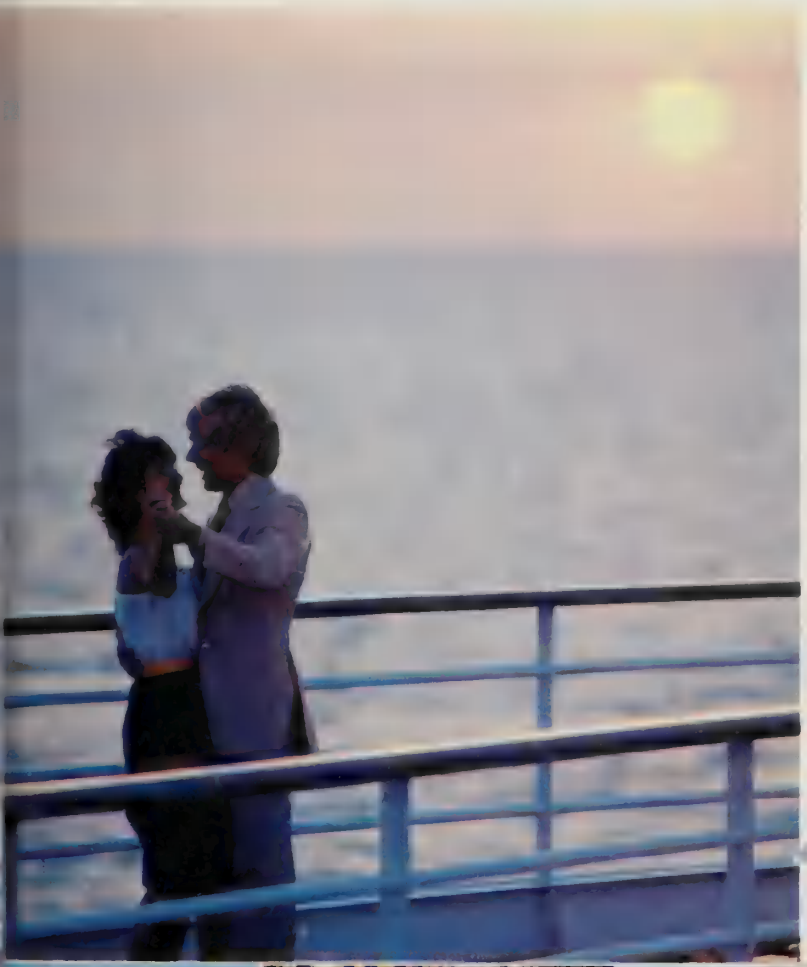

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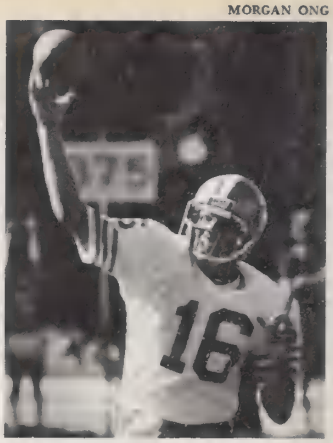

Quarterback *Joe Montana unloads pass during preseason practice last summer*

Watching the champs practice

The grunts during drills and scrimmages will sound as loud as they did last summer. But this year the mood at the San Francisco 49ers' preseason training camp will be decidedly different. With their Super Bowl victory, the 49ers now wear the aura of world champions.

Between July 24 and August 28 you can watch the champs practice at Sierra Community College in the town of Rocklin, 20 miles northeast of Sacramento in the Sierra foothills (on the edge of the Gold Country).

Two-hour workouts usually start daily at 10 and 2; double-check by calling the team at (916) 642-4562. The college charges $1 admission per session; a preseason pass costs $10.

Look for strong competition from the veterans and the rookies, including Renaldo Nehemiah—the speedy hurdler who hopes to make it as a wide receiver.

Average daytime temperature during camp is 86° and there's little shade, so be prepared for the heat. If bleacher seats fill up, you may have to stand.

After daily practice, players often stay for a short time to sign autographs. But a 49er spokesman cautions "It took 10 minutes to get an autograph last year, it may take 20 this year."

For the date of Family Day—a special day of picture-taking and picnics—call the team at the number above.

A brochure listing lodging and restaurants will be available; call the Sierra Community College Physical Education Department at (916) 624-3333. Nearest motels are in Roseville, 6 miles southwest. To get to the college from Interstate 80, take the Sierra College Boulevard exit and go south about a mile. □

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Puget Sound cruises ...6 days and up

If a leisurely cruise through Puget Sound suits your vacation tempo, you may want to consider one of three companies that make 6- to 11-day trips. Like the 3- to 5-day excursions offered by three new operators (described on pages 68 to 70 of the May *Sunset*), these are fixed-itinerary cruises from Seattle to Washington's San Juan Islands. One continues into Canadian waters in British Columbia.

Vessels vary in length from 52 to 65 feet and accommodate 8 to 14 passengers in double rooms with shared bath. All meals are taken aboard ship.

Catalyst Charters, 515 S. 143rd St., Tacoma 98444; (206) 537-7678. The 55-foot *Sacajawea* leaves Seattle's Lake Union on Mondays for six-day cruises of the San Juan Islands ($425); nine trips are offered between mid-June and late August.

Guided historical walking tours are given in every port of call—Anacortes, LaConner, Roche Harbor, Rosario. At the latter two, you're given plenty of time to enjoy resort facilities ashore. You can use the vessel's two dinghies and Norwegian rowing pram to fish, set crab pots, or reach small islands.

At Sucia Island, you stop for a cookout and natural history walk. A side trip by van to the top of Mount Constitution on Orcas Island is also scheduled. Meals include plenty of fresh local seafood.

The 10-year-old steel-hulled *Sacajawea* (45 tons, eight passengers) is now in her fourth season of Puget Sound cruising.

Cebu Cruises, 1017 168th Ave. S.E., Bellevue 98008; (206) 746-3414. From late May through mid-September, the 52-foot *Cebu* makes seven 8-day cruises ($685) and five 11-day cruises ($930) between Seattle and Desolation Sound on British Columbia's Sunshine Coast.

These are one-way cruises. The operator returns you to Seattle by seaplane after the 11-day cruise, or flies you up from Seattle to start the 8-day trip back.

Only nonsmokers are welcome, and no liquor is served aboard. One dinghy lets you explore beaches and waterways. Itinerary highlights include Coupeville, Roche Harbor, stops in the Gulf Islands, Sechelt Inlet, Princess Louisa Inlet, and Cortes Bay.

The 58-ton *Cebu* (eight passengers) is in her eighth season. This summer's cruises may be fully booked, but check for cancellations.

Vacation Cruises, Box 1250, Vashon 98070; (206) 567-4201. The 65-foot *Gallant Lady* leaves Seattle on Sundays, making eight six-day trips ($425) to the San Juans from mid-June through mid-September.

The itinerary is almost identical to Catalyst Charters (above), with the same activities and tours. However, this 57-ton vessel—now in her 16th cruise season—is no ordinary boat: the 1940 classic motor yacht (14 passengers) features all-wood construction with a teak cabin. Two 10-foot tenders allow you to explore and fish (bring your own tackle). □

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DON NORMARK

Guide mounts ladder *to upper story of prehistoric-style Indian dwelling built of stone at mouth of New Mexico's new Heritage Canyon*

Both parks *are reached by interstate freeways: Heritage Canyon is just off I-40 near Gallup; Gila Heritage is off busy I-10 southeast of Phoenix*

History comes alive at new heritage parks in Arizona, New Mexico

Two "living history" parks—one in Arizona, the other in New Mexico—offer lively new ways for visitors to learn about the Southwest's heritage.

The Gila Heritage Park near Phoenix is operated by the Pima and Maricopa Indians on the Gila River Indian Reservation. Heritage Canyon is part of Red Rock State Park outside Gallup.

At both sites, Indian guides in period clothing tell you of their people's past. (At Heritage Canyon, also look for guides wearing early Hispanic and Anglo frontier garb.) And at both parks, you can see traditional crafts in the making.

Gila Heritage Park . . . five villages with tribal artisans and an Indian cookout

This new 15-acre park eventually hopes to show traditional desert Indian life in the way Colonial Williamsburg recreates 18th-century Virginia.

Pima, Papago, and Maricopa guides lead visitors through five re-created villages, which reflect 2,000 years of desert Indian history, architecture, crafts, and farming. While exploring, you can watch and talk with tribal artisans as they make baskets, jewelry, and pottery. There's Indian dancing as well. You can sample the fare served at an Indian cookout, in-

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The oldest village, representing the pr historic Hohokam, includes three p houses. Entering one of these earthe and-reed shelters dug into the earth like stepping into an enormous, surpri ingly cool woven basket.

The other four villages represent 18th century Papagos (who now live nea Tucson), the Pimas, the Maricopas (wh share this reservation with the Pimas to day), and the traditionally more nomadi Apaches.

Gila Heritage Park is 30 miles southea of Phoenix (88 miles northwest of Tu son). From Interstate 10, take the Cas Blanca exit and drive west ¼ mile. I June and July, park hours are 5 to 9 P.M Thursday through Saturday; admission $2. The park will close in August, th reopen in September. For details, ca (602) 963-3981 or write to Dr. Ala Kite, Box 97, Sacaton, Ariz. 85247.

Heritage Canyon . . . Indian village, Hispanic ties, frontier days

Red Rock State Park's Heritage Canyo is the first "living history park" in Ne Mexico to depict all three major culture that give the state its rich heritage: In dian, Spanish, and Anglo.

A series of villages representing prehi toric Indian life, 17th-century India and Hispanic life, and a 1900s frontie settlement have been built along a ¼ mile stretch of stunning red rock canyo You can explore the area on foot o horseback.

You're welcome to chat with costume Indians, Hispanics, and Anglos, wh serve as guides and make tradition crafts and foods for sale. You'll se Navajo rug weaving outside a thatche hogan, fry bread and Indian tacos sizzle in hot oil near an Apache wickiup, brea being baked in an outdoor Spanish hac enda oven, and horseshoes being forge in a frontier village blacksmith shop.

A horse-drawn hay or covered wago hauls visitors to Heritage Canyon's en trance from the park's museum, whe you buy tickets: $2 for adults, $1 fo children age 5 to 12; ask at the museu about horseback rides. Heritage Canyo is open to visitors Thursday throug Monday 9 to 6, from May 29 to Sep tember 30.

The park is 4 miles east of Gallup ju off I-40. There's camping with hookup for 150 units at $5 a night. For detail call (505) 722-5564 or write to Re Rock State Park, Box 328, Church Roc N.M. 87311, including a stamped, sel addressed envelope.

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*EPA estimated 27 mpg. Use for comparison only. Actual mileage varies with speed, trip length and weather.

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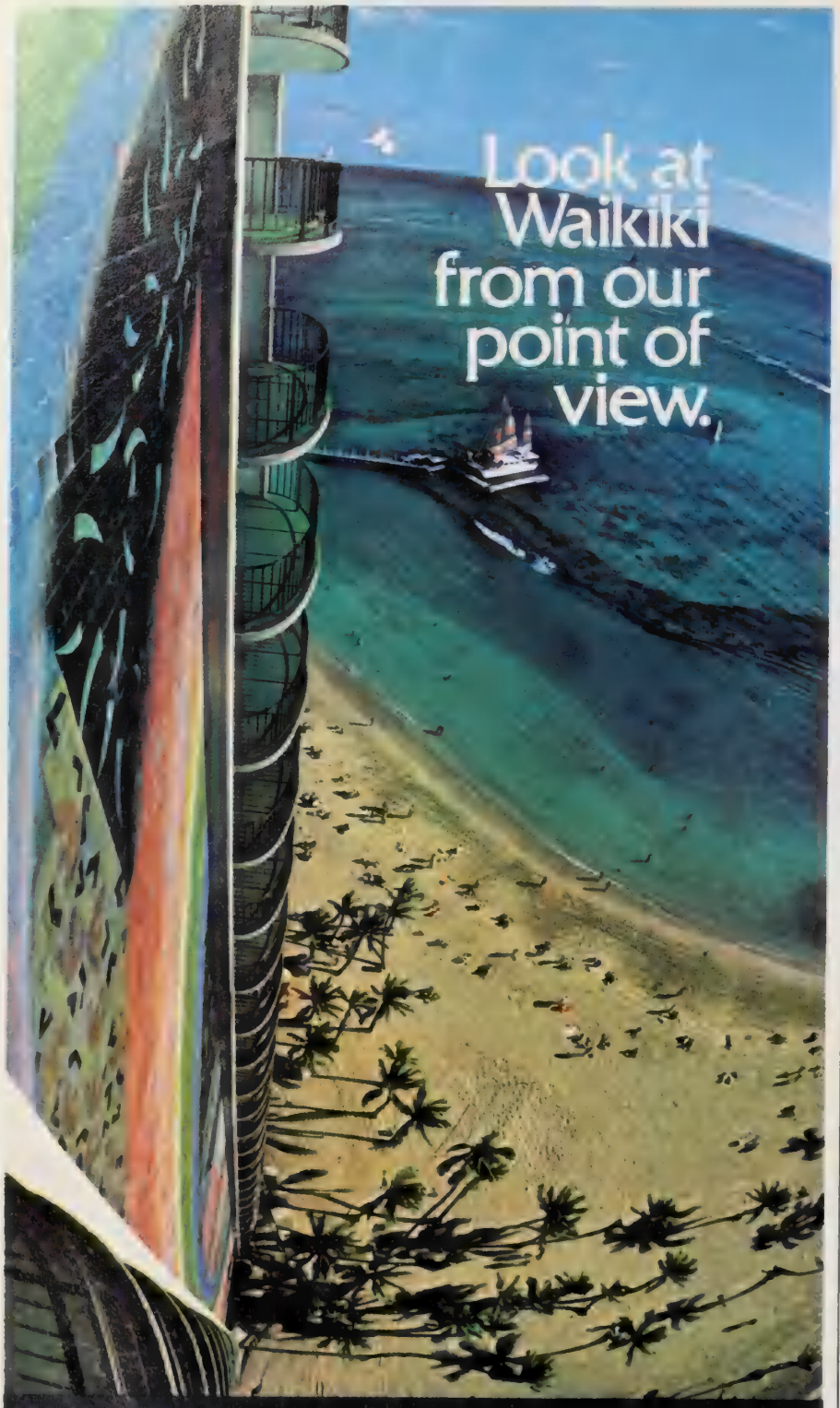

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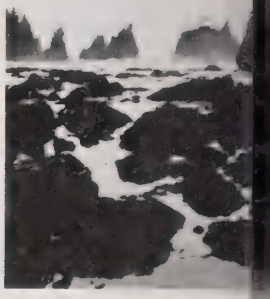

Wave-carved *monolith shows ocean's erosive artistry. At low tide, you can explore rock sculpture, tidepools*

Beach walking an

If any one stretch of Washington's wil Olympic coast is famous above all other for its rugged beauty, Shi Shi Beach is th place. Shi Shi (pronounced shy-shy) wa part of a 1977 addition to Olympic Na tional Park; now the easy 2-mile walk t the beach is open to all.

What makes this area so special is superlative array of sea stacks and rock pinnacles. In any season and almost an weather, this grand offshore architectur makes for some extraordinary hiking But because it's a long drive there fron Seattle (about 150 miles, including tw ferries and some slow road), you ma want to time your visit for good weathe and low tides that allow wandering ou among the rocks and reefs.

As the tide recedes, follow the sand corridors out between the sea stacks Tidepools team with life: sea stars wit tiny sensory feet edge past anemones whose pale green tentacles reach for th next meal. Shore crabs scuttle for cover On rock surfaces, blue mussels crow out less aggressive species. Limpets an barnacles hide in the folds of rock.

Cormorants crowd the buttresses of islet and larger sea stacks, and shorebirds o all description wheel and dive overhead Binoculars can help you zero in on them

With all there is to see on the reefs, it' easy to forget the incoming tide and be come stranded. Be sure to carry a tid table; a good rule is to return to th beach 3 hours before high tide.

Walk south and you'll see 40 millio years of geologic history reflected in th changing character of the shore, fron aggregates of stone embedded in cla to headlands of metamorphic roc smoothed by waves. The gray-black sedi mentary rock that looms farther south i

JOEL W. ROGERS

ımping at Shi Shi

ı remnant of the ancient sea floor.

In fair weather, you can camp right on he beach. But beware of storms that could lash open campsites; consider pitching your tent in the forest. Three creeks provide water, but the Park Service advises boiling it for several minutes. Overnight camping permits (free) are required; they're available, along with maps and some reference books, at ranger stations in Port Angeles and Forks. To check on weather and road conditions, call (206) 452-9235.

The Park Service asks beach walkers to stay on sand or exposed rock and to resist touching tidepool organisms.

Besides basic camping gear, bring a pair of old sneakers for tidepool explorations. Two USGS quadrangles (Cape Flattery and Lake Ozette) show the area in detail.

To get there from Seattle, take either he Kingston or Winslow ferry to the Kitsap Peninsula, continue to the Hood Canal Ferry, and then drive west about 120 miles, following State Highway 104, U.S. 101, and State 112 to Neah Bay (on he Makah Indian Reservation). Continue through town, following signs to "Air Force Base and Ocean Beach." In about 3 miles, turn left across the Waatch River and drive about 6 miles outh (bear right at forks) to the Indian ettlement of Mukkaw Bay.

The road is notoriously muddy. You may wish to arrange parking with an Indian amily (try Isabelle's Craft Shop, just beore the hill). If you have heavy packs or camping gear, it may be convenient to unload farther on, then return to park he car.

From Mukkaw Bay, the road reduces to rail, which you follow about 2 miles outh to the beach. □

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MACAU
The past is present.

Gold bricks, rare coins at San Francisco's Old Mint

R. VALENTINE ATKINSON

Each brick of gold *weighs 27½ pounds (worth $150,000 at press time); nuggets came from a California mine*

In a walk-through steel vault under a plexiglass cylinder, 41 gold bars are stacked in a stout pyramid. Around them is a 1,000-ounce scattering of gold nuggets. A solemn treasury guard—stationed within striking distance—protects the $6½ million treasure.

It's a mesmerizing display that tends to captivate you longer than the others at the Old Mint Museum in San Francisco at Fifth and Mission streets. The 16-room museum exhibits a varied collection of rare coins, antique furniture, Western art, and old minting equipment.

Numismatic treasures. If you collect coins, you're probably familiar with the S mark (for San Francisco, of course) stamped on Liberty-type U.S. silver dollars minted in this building from 1878 to 1935; they're on display.

Finest of the rare coins on view are those of the Kagin Collection, a $6 million display of territorial and privately minted coins primarily from the California gold rush era. Highlight is the octagonal 1851 Augustus Humbert $50 gold coin: a proof specimen purchased by the Kagin numismatic firm for $500,000—highest price ever paid for an American coin.

Back in mint condition. The Old Mint opened in 1874 and ceased operations in 1937. The building has been completely restored. High ceilings, cast-iron interior columns, brick arches, golden mahogany woodwork, and marble fireplaces reflect the opulence of Greek revival architecture in the 1870s.

Within old vaults on the lower level, the museum has re-created a gold miner's cabin, resurrected an 1870s stamp mill used for crushing ore, and assembled an array of Victrola sound machines made from 1898 to 1925.

On the main level, the superintendent's office looks as it did around 1874; down the hall, there's a furnished Victorian bedchamber.

The museum is open, free, Tuesday to Saturday 10 to 4; 1½-hour tours start every hour. The numismatic sales room has many U.S. coin sets and medals. Nearest parking is on Mission Street diagonal to the Old Mint. For more details call (415) 974-0788.

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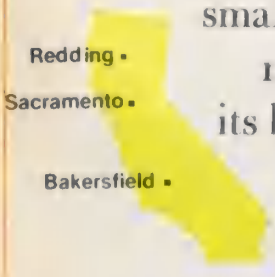
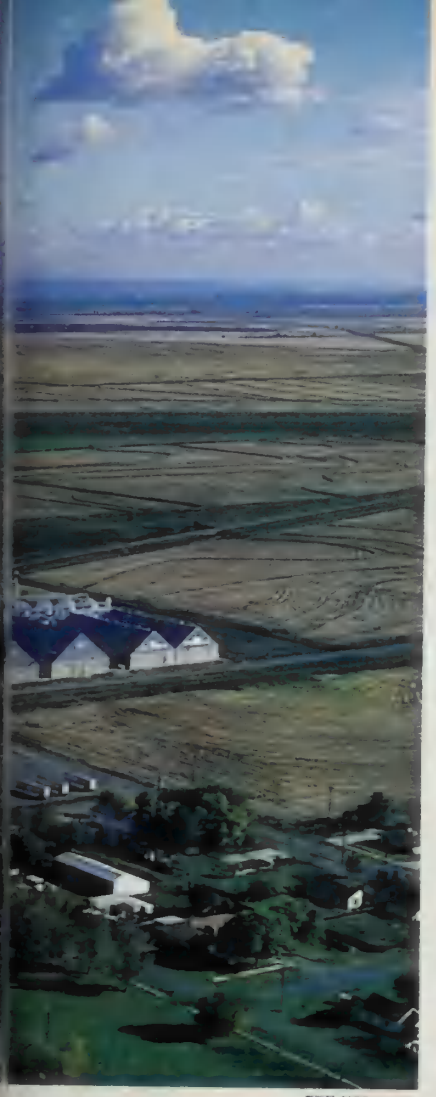
Silos sprout taller *than trees in Butte County's Richvale, heart of California's "rice bowl" (brown after September harvest). Helping to create this agricultural mecca is the water-storing Sierra Nevada, a blue shadow on the east horizon*

Agricultural adventuring in California's Central Valley

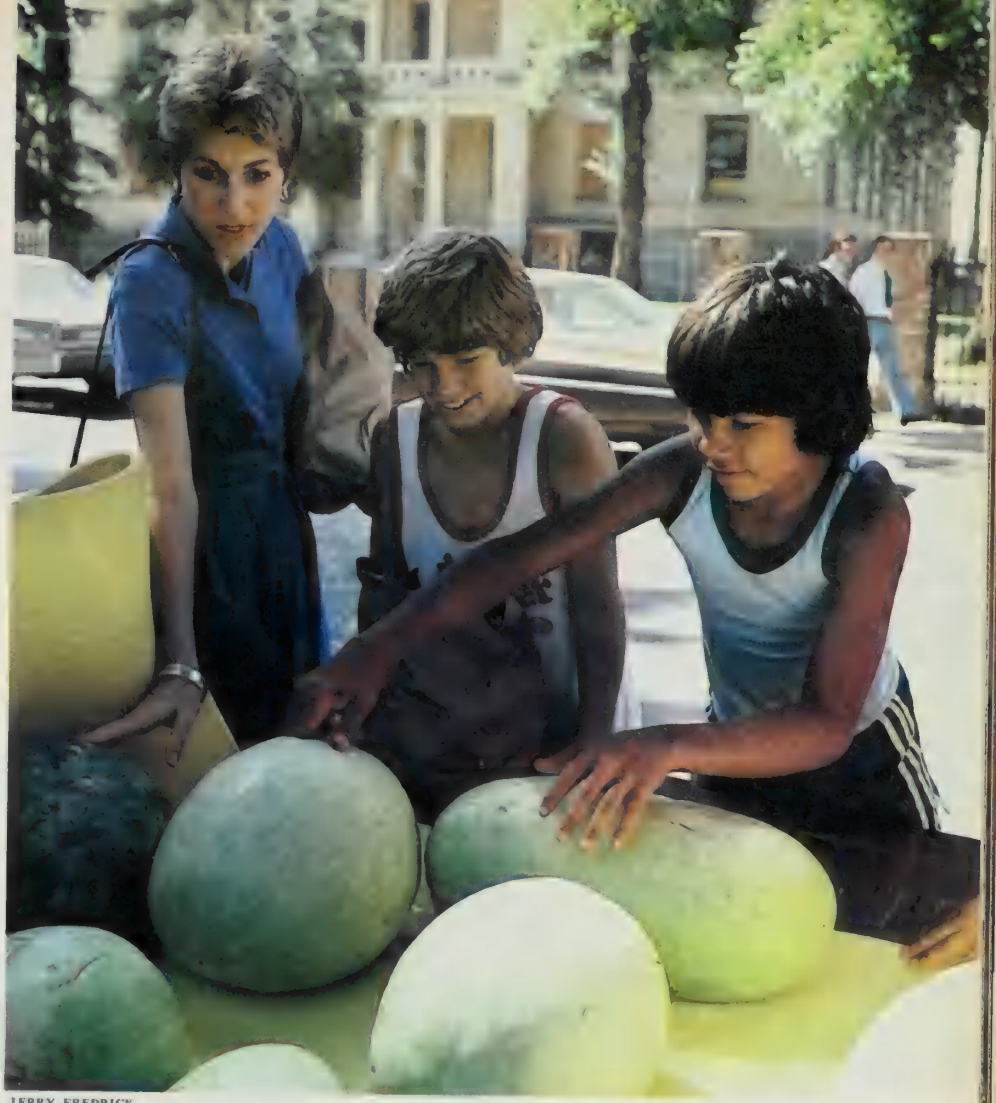
You-pick orchards, farmers' markets, harvest trails, small-town hospitality, mechanical marvels. More than ever, the nation's richest, most varied agricultural valley is sharing its bounty. Here's a harvest-season pull-off-the-interstate guide





DON NORMARK

Basket-tipped poles *lend helping hand to shoppers who pick their own peaches at Bussell Ranch in Kern County*



JERRY FREDRICK

Getting the test for ripeness *is tubby truckful of melons at farmers' market in Hanford, Kings County. In background is 1896 courthouse, now being restored*

Travel any long distance in California this summer and you'll be hard pressed to avoid the Central Valley. If you find yourself turning up your air conditioner, gritting your teeth, and driving a little faster, chances are you're there.

This isn't the California that appears on travel posters. From the window of a car hurrying along Interstate 5 or State 99, the landscape seems platted more for efficiency than for appeal: fields that could be no flatter if they had been ironed, rivers herded into smooth-faced canals, roads whose T-squared directness inhibits any thought of dawdling.

Well, dawdle anyway. Travelers who do will find themselves in the richest, most varied, most influential agricultural valley in the nation, perhaps in the world—a 465-mile-long, 30- to 60-mile-wide garden fully worthy of comparison with the Nile Delta, the valleys of the Tigris and Euphrates, and other farmers' meccas fabled in junior-high geography class.

Today more than ever, the Central Valley is sharing this bounty with visitors. A dramatic revival in farmers' markets and farmside food stands makes it easy to visit with growers while heaping your car with tree- and vine-ripened provisions for home or campground.

County fairs and harvest festivals (dates are given on our map pages following) showcase local hospitality as well as local crops. For urban youngsters convinced that chickens grow in cellophane and tomatoes in cans, agricultural tours (also indicated on our map) show what happens after crops leave valley fields.

From a land unfit to one unsurpassed

The Central Valley is in fact two valleys: a northern one drained by the Sacramento River and a broader, longer southern one drained by the San Joaquin. (The two valleys and rivers converge in the Sacramento Delta, explored in *Sunset*'s May issue.) Their crucial difference is water: the northern valley has it, the southern one does not. Redding gets 38 inches of rain a year, Bakersfield a sere 6.

Apart from that, both share a climate and geography exquisitely suited to farming. Alluvial troughs caught between Coast Range and the Sierra Nevada, they enjoy rich soil, mild winters,

DON NORMARK

Melons by the lapful, *bins of vegetables and baskets of fruit lure roadside shoppers at Boucke Farms in Tudor, north of Sacramento. (Boucke's sells an astonishing 41 varieties of freestone peaches, 10 kinds of plums, 8 each of cherries, nectarines)*

Tractor-carried, *hay-cushioned visitors to Bussell Ranch ride to ripest fields. Ranch grows peaches, plums, nectarines, okra, cantaloupe, and more*

JERRY FREDRICK

and long, hot growing seasons relativel free from rain. The lofty mountains t the east store winter precipitation fo convenient summer use.

That this would be California's Ede wasn't always apparent, however. Pio neers found much of the Sacrament Valley a quagmire in winter and spring a sunbaked desert in summer and fal As for the San Joaquin, in 1816, Spanis priest Luis Antonio Martinez took on look at what is now Tulare County an sighed, "There is no fit land for sowin crops because everywhere is sand."

The truth is that large-scale water man agement has continually been the key t the valley's agriculture; farming ha grown here as did opportunities for floo control and irrigation.

The first crop to make the valley famou required little of either: wheat, raised o enormous ranches, then shipped aroun the Horn to Europe. California's grai empire flourished from the 1870s to th 1900s, collapsing when competitio arose in the Midwest and Australia an when new technology—electric pump to tap underground water, ice-coole railroad cars that sped produce east with out spoiling—encouraged greater cro diversity.

It encouraged a diversity of settlers, too for the newly watered fields drew immi grant farmers from around the world Many started as laborers, then bough land—and their fifth generation descen dants remain farming here today French, Hungarians, and Italians brough grape-growing savvy; Portuguese bega as truck farmers, then joined Swiss Dutch, and Danes in dairying. The Chi nese and Japanese, for years prohibite from owning land, became skilled at th intensive farming of small acreages.

(A treat for today's traveler remains th discovery of ethnic enclaves: Yuba City' cling peach industry is dominated by In

Red as a ruby *but much sweeter, Max-Red Bartlett pear may not be in your market—but it's a sample of the varied harvest available this summer in California's Central Valley*

dians from the Punjab; Swedes fill the towns of Richvale and Kingsburg, and Armenians remain prominent in Fresno.)

In 1982, both the abundance of the Central Valley and the engineering that supports it are, to put it mildly, impressive. The valley's lifeblood today flows through two water systems—the federal Central Valley Project, which began deliveries in 1951, and the State Water Project, whose first phase was finished in 1973. They form the most extensive flood control and irrigation network in the country: 37 dams and reservoirs, 10 power plants, 25 pumping plants, and 1,400 miles of canals. (Our maps show some key elements.) Continuing a rancorous regional tradition, they have been the focus of some of California's biggest political battles (who gets the water, and at what economic and environmental cost?), the latest being last month's vote on the Peripheral Canal.

As for the valley's agricultural strength, pick almost any set of farm-related statistics and it is evident. Of the ten U.S. counties with the highest agricultural revenues, seven—including number one, Fresno—are here. From here in 1981 came $9.6 billion of the $15.7 billion farm revenue that makes agriculture California's foremost industry.

Thanks to the Central Valley, California leads the nation in a shopping cart full of crops—almonds, apricots, asparagus, cantaloupes, carrots, figs, grapes, kiwis, nectarines, olives, peaches, pears, pistachios, prunes, raisins, safflower, tomatoes, and walnuts. In all, at least 240 commodities flourish here.

A quiet revolution: food straight from the growers to you

Traditionally this largess has traveled out of state and has not been easy to buy locally. But a quiet revolution launched in 1976 now makes the valley's harvest more accessible than ever.

California leapt ahead in direct farm-to-consumer marketing when large fruit harvests and cannery strikes led the state Department of Food and Agriculture to set up a toll-free hotline to Sacramento, matching farmers with eager customers. In 1977, the state also relaxed strict labeling and packaging rules for direct sales, and set up the nation's only certification program for farmers' markets—guaranteeing that produce is sold by growers, not middlemen. In 1976, California had perhaps four farmers' markets; today they number 65. (See map pages for valley farmers' markets.) And more than 1,000 growers now sell direct to consumers, either at roadside stands on their land, or through you-pick operations, or even rent-a-tree (you harvest the entire yield of a tree you've paid a grower to tend.) Scattered through every valley county, Shasta to Kern, their bounty is greatest now through September or October.

These shopping detours can be a memorable family adventure. Pictured on page 59 is the Bussell Ranch west of Bakersfield (from State 99, take the Stockdale Highway 15 miles east), where visitors tour fields by tractor to load their boxes full. "Often we get three generations coming from Los Angeles for the day," says Bart Bussell. "We overhear grandparents recalling their own rural childhood memories. Once folk find us, we see them again and again."

Farmers' markets, whether they hum on charming old Main streets in Hanford and Redding or sprawl over vacant lots, are genial bastions of free enterprise, each seller setting his or her prices and sharing grower secrets. Stockton's Saturday morning market, one of the biggest, is a miniature United Nations, with Californians of Latin American, Asian, and European descent jammed together touting their home-grown specialties—likely including some crops you've never heard of before. Recipes and storage tips, even cooking demonstrations, help sell the more exotic offerings.

While not all produce is cheaper when bought direct, savings can be substantial: a 1979 UC Davis study documented an average one-third savings at farmers' markets over supermarket prices. But the biggest draw is the flavor. Fruit and vegetables harvested for shipment to distant locales must be picked before the flavor fully matures. Produce sold on or near the farm and at farmers' markets is generally at its sweet, ripe peak when you buy it—minutes or hours from the field. Variety can surpass that found in many supermarkets, too.

What about the Medfly? State officials foresee no problem buying and transporting fruit or vegetables anywhere within the Central Valley this summer.

Ancient worries and new machines

A side-benefit of detouring, of stopping at farmers' markets and stands, is the chance to chat with growers.

The ancient farmer's worries remain: you sow seed in March wondering about the weather in September; you put in sap-

(Text continues on page 66)

Into the fields you go. Or to straight-from-the-grower stands and markets

Lighter tone *shows Sacramento Valley counties; darker tone shows counties of the San Joaquin Valley*

Call or write for guides to growers

Nine directories will help you find Central Valley growers who sell their produce direct to consumers. Information includes crops for sale, harvest dates, and special arrangements such as U-pick or rent-a-tree.

The best over-all guide—it lists more than 1,000 growers—is the free *California Farmer to Consumer Directory*. For a copy, write to the Department of Food and Agriculture, 1220 N St., Room 427, Sacramento 95814, or call toll-free in California (800) 952-5272 or (916) 322-0417.

Valley counties publish their own harvest trail maps (free unless noted otherwise), listed here from north to south. Include a stamped, self-addressed business-size envelope with each request.

Tehama: List of 16 area growers who sell direct is available from Tehama County Farm Bureau, Box 749, Red Bluff 96080; (916) 527-7882.

Butte: For a copy of *Butte County Harvest Trails*, write to Box 1204, Oroville 95965. It lists 23 growers, most in and around Oroville, Gridley, Paradise.

Yolo/Solano: Sixty listings are included in the *1982 Yolano Harvest Trails*. Write to Box 484, Winters 95694.

Fresno/Madera: Land for People, a nonprofit organization promoting smaller family farms, will send you *Getting It Straight*, a list of 64 growers. Send $1.37 (includes postage) to 2348 N. Cornelia Ave., Fresno 93711; (209) 237-6516.

Stanislaus/San Joaquin/Merced: The 1982 *Central Valley Harvest Trails* lists 45 farms in these counties. Write to Box 3070, Modesto 95353, or call (209) 522-7278.

Tulare: *Tulare County 1982 Harvest Trails Guide* lists 11 growers. Write to 15908 Avenue 264, Visalia 93277.

The east side of the San Joaquin Valley contains numerous packing houses that sell cartons of oranges direct to the public. Write to California Citrus Mutual, Box 687, Visalia 93279; (209) 732-9177.

Kern: *Kern Harvest Trails* lists 21 Valley growers. Send 40 cents in stamps to Farmers' Market Association, Box 5232, Oildale 93308; (805) 323-7897.

Shasta Dam (1944). The 602-foo key reservoir in Central Valley can be toured free, daily 10 to 5

Old Shasta State Historic Park on State 299 includes 1861 courthouse museum, shade trees for picnicking, other buildings under restoration

Red Bluff. Head of river navigation until 1890s, it's a showcase of 19th-century valley architecture. Get tour brochure at Kelly Griggs House, Ash and Washington streets, Thursday through Sunday 2 to 5

Sacramento River parks are fine for cooling off and picnicking. Red Bluff Riverside Park has boat rentals; near is romantic, overgrown Dog Island. You can camp at Woodson Bridge State Recreation Area, 6 miles east of Corning, and at Colusa - Sacramento River State Recreation Area in Colusa

SACRAMENTO VALLEY
Tours from almonds to wineries. Fairs, markets, museums, parks from Redding to Lodi

An air of sturdy 19th-century prosperity still cloaks Sacramento Valley towns—farm and trade centers born along the rivers or railroads during California's flamboyant Gold Rush. (Many towns are older by several decades than San Joaquin towns.)

Farms you'll pass are mostly family owned—often handed down three generations or more. Along the east side, orchards and vineyards mix with rice and row crops. Across the flat west side sprawl the largest farms. California's rice bowl encompasses Colusa, Butte, Sutter, Glenn, and Yuba counties. Yolo County is a leader in canning tomatoes, and northward in hillier Tehama and Shasta, emphasis shifts to cattle and sheep.

Agricultural tours (AT on map)

These are mostly workplaces: be prepared for some noise and some walking (wear low heels, covered toes). Unless otherwise noted, tours are free, and *reservations are required.* Most plants close on holidays.

Corning. *Bell-Carter Foods, Inc.*, 1012 Second Street; (916) 824-2901. The plant, which pickles or preserves 14 vegetables, will host special 1-hour tours for *Sunset* readers from 1 to 4 on July 19 through 23.

Chico. *California State University Chico, student farm*, on Hegan Lane south of Chico; (916) 895-6334. Weekdays 7 to 3:30, July and August; 8 to 4:30 when school resumes; stop by farm office for permission to see cows, sheep, pigs, and other critters managed by Chico students.

Richvale. *Wehah Farms, Inc.*, 5370 Church Street; (916) 882-4225. Rice milling tours weekdays, plus Saturdays during harvest (September through November).

Yuba City. *Sunsweet Growers Inc.*, 901 N. Walton Avenue; (916) 674-5010. Call at least a week ahead to tour dried fruit plant. No children under 13.

Wheatland. *Bishop Pumpkin Farm*, 1 mile west of State 65 on Fourth Street; (916) 633-2568. Starting September 1, reserve for weekday October hayride, ranch tour, harvest of your own pumpkin ($1.25). Admission free on October weekends.

Woodland. Chamber of Commerce, 520 Main St., Woodland 95695; (916) 662-7327. August and September farm tours will show off the area's agriculture—including tomatoes. Call or write for details.

Davis. *Frank Maurer Farm*, Route 1, Box 2470, Davis 95616; (916) 758-1387. See animals, windmills, garden on 1½-hour tour of farm being reclaimed from marginal land; $10 for 1 to 10 people.

The Vinegrove, 2 miles east of I-505 on the Davis/Winters road; (916) 795-4927 or 753-4356. Tours show fruit drying: apricots through July 4, peaches in August.

Sacramento. *California Almond Growers Exchange*, 1802 C Street; (916) 442-0771. Drop by for film and tour weekdays at 10, 1, and 2. See almonds processed and packaged. Film also shown Saturdays between 10 and 3:30.

Woodbridge. *Turner Winery*, 3750 E. Woodbridge Road; (209) 368-5338. Tasting daily 10 to 5; call ahead for tour.

Lodi. *East-Side Winery*, 6100 E. Highway 12; (209) 369-4768. Tours daily 9 to 5.

Guild Wineries, 1 Winemasters' Way; (209) 368-5151. Just show up for tours Monday through Friday at 10, 11, 1, 2, 3.

Fairs and festivals (F on map)

Here's what's coming July through February 1983. Chambers of commerce or fairgrounds offices can give details. Especially interesting at county fairs are livestock auctions for youth groups—usually held on a Saturday.

Anderson: Shasta District Fair, June 22 to 27; (916) 365-2516.

Red Bluff: Sun Country Fair, July 22 to 25; (916) 527-5920; Adobe Days, August 21, (916) 527-5927.

Corning: Centennial Festival, July 5 to 11; Harvest Festival, October 16; (916) 824-5550.

Gridley: Butte County Fair, August 25 to 29; (916) 846-3626.

Yuba City: Yuba-Sutter Fair, July 28 to August 1; (916) 674-1280.

Colusa: Colusa County Fair (with emphasis on rice), June 17 to 20; (916) 458-2641; Orchard and Farm Equipment Show, February 1 to 3; (916) 458-2641.

Woodland: Yolo County Fair, August 18 to 22; (916) 662-5393.

Sacramento: California State Fair, August 24 to September 6; (916) 924-2000.

Courtland: Delta Pear Fair, July 25; bob for pears; (916) 775-1922.

Lodi: Grape Festival, September 16 to 19; (209) 369-2771.

Certified Farmers' Markets (Mkt on map)

Many of the telephone numbers listed are at private homes.

Redding: Saturdays 7:30 A.M. to sold out, also Tuesdays 6 to 8:30 P.M., June to October, in front of city hall on Parkview Avenue; (916) 246-0761.

Red Bluff: Saturdays in August, 6:30 to noon, at River Park; (916) 527-1622.

Chico: Saturdays 8 to noon, E. Fifth and Orient streets. Also Wednesdays 4:30 to 8:30 P.M. June through November, State 32 and East Avenue; (916) 345-8569.

Orland: Wednesdays 8 to noon, June to November, State 32 1½ miles east of Orland, at Road M½; (916) 865-3629.

Oroville: Saturdays 8 A.M. to sold out, June through November (special events July 17), Myers and Huntoon streets; (916) 534-0998.

Esparto: Saturdays 8 to 1, June through September, 900 Woodland Avenue; (916) 787-3205.

***Carmichael:** Sunday to Friday 10 to 6 June to October, 5701 Winding Way; (916) 929-9795.

Sacramento: Sundays 8 to 1, all year, between Sixth and Eighth, W and X streets (under freeway). By August, may start Saturdays, 8 to noon, at Florin Mall, 65th Avenue and Florin Road; (916) 443-FARM.

Davis: Saturdays 8 to noon all year, Wednesdays 4 to 7, Fifth and C streets, March to November; (916) 756-1695.

Vacaville: Saturdays 9 to noon, June to mid-November, School Street between Main and McClellan; (707) 448-3301.

***Elk Grove:** Monday to Saturday 7 to 6, 8253 Elk Grove Boulevard; (916) 685-5312.

Lodi: Thursdays 7 A.M. to 1 P.M., Lawrence Park; (209) 943-1830.

*Indicates private (one-farmer-owned) certified farmers' market.

Museum with an agricultural flavor (Mu on map)

Red Bluff: *William B. Ide Adobe State Historic Park*. Northeast of town (north on Main, east on Adobe Road) is the restored adobe ranch house of the first and only president of the California Republic—a nostalgic setting under a huge white oak on a bluff overlooking the river; free. Picnic tables. Daily, 8 A.M. to sunset.

DON NORMARK

Almond lover's buffet *offers a dozen choices at Sacramento Almond Growers Exchange. Before the tasting, guide explains how crop is harvested, processed*

ico: *The Bidwell Mansion*, 525 The planade. John Bidwell, father of Central lley agriculture (introduced the casaba lon, experimented with many crops), unded this town in 1860, left behind a lendid 26-room Victorian mansion open ily for tours, hourly 10 to 4 (50 cents, cents ages 6 to 17). (916) 895-6144.

iba City: *Community Memorial Museum*, 33 Butte House Road (from State 99, n right on State 20; then left at Gray venue, left at Butte House Road). ekdays 9 to 5, Saturdays 1 to 4; free. tifacts from early agricultural era include otos of locals who developed the cling ach and Thompson seedless grape. For , get a *Guide to Sutter County Historical, ltural, Scenic Sites*. (916) 674-0461.

illiams: *Sacramento Valley Museum*, 95 E Street, daily 10 to 5, closed ursdays: 50 cents; 25 cents age 6 to 16. 1911 schoolhouse is filled with rural emorabilia including a 20-horse-drawn rvester, old hay rakes, harrows, wagons. 16) 473-5423.

di: *San Joaquin County Historical useum*, on Micke Grove Road (from ite 99, take Eight Mile Road west to icke Grove; turn north). Inside airy ildings is a substantial collection of farm achinery—winnowers, harvesters, hoers. ednesday through Sunday 1 to 5; 09) 368-9154.

sampling of parks (P on map)

ere are five to consider: also see Sacraento River parks on map above.

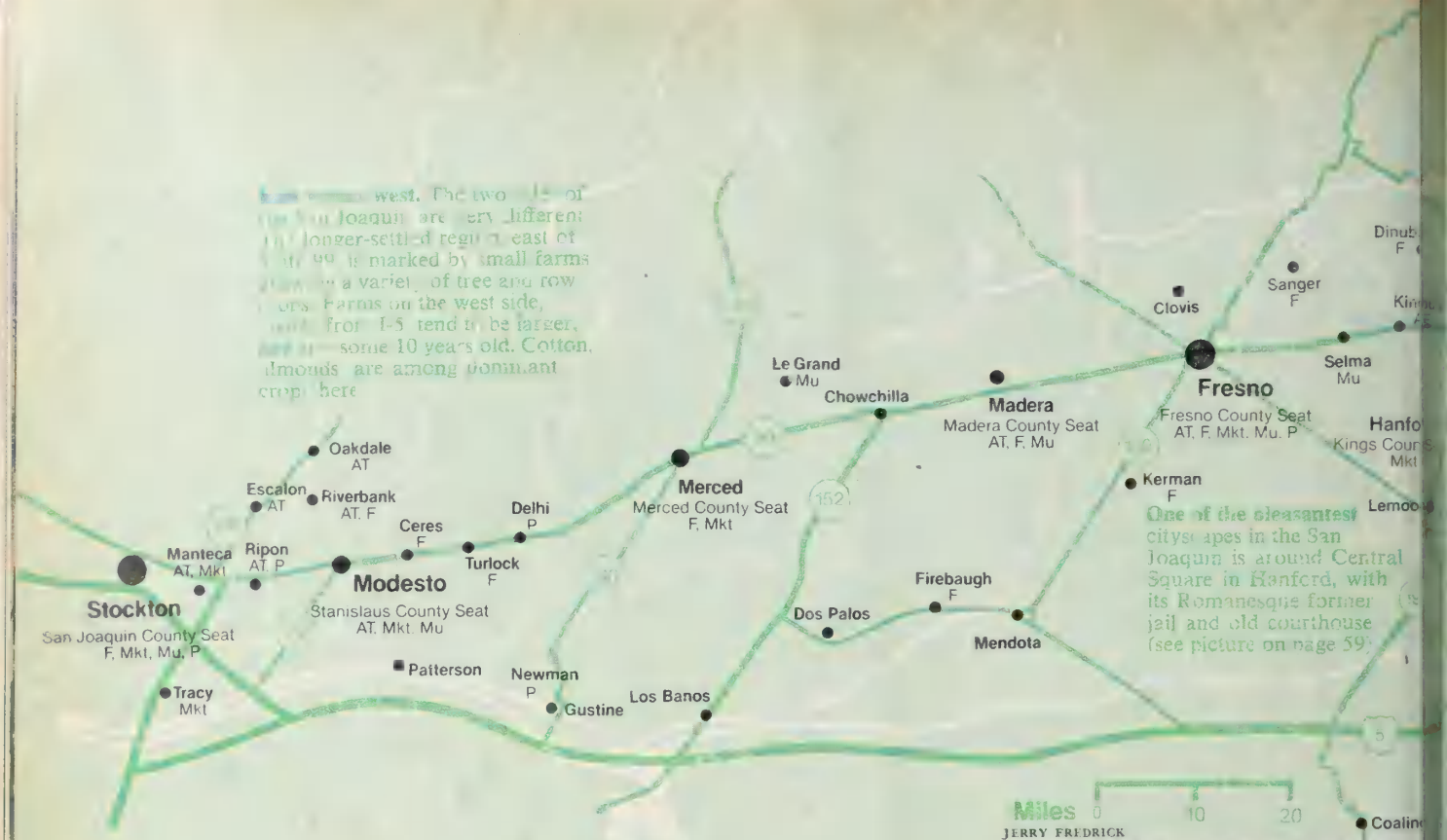
ico: *Bidwell Park* is entered east of town Fourth Street or Vallombrosia Way. rs. John Bidwell left this 2,300-acre park one of the nation's largest city parks—awling 10 miles on both sides of Big ico Creek into nearby foothills. Dams at e and Five Mile provide swimming; ny choices for picnics, hiking, biking. y $1 park map at Chico Parks, Fifth and ain, or write to Box 3420, Chico 95927.

cramento: *Gibson Ranch County Park*, miles north of I-80 on Watt Ave., then t a mile on Elverta Road: 325-acre rking ranch has barnyard animals, wild d domestic birds to see, plus picnic tables, swimming, fishing. Daily 7 to dark, $2 per car. Horses for rent at Big Oak Ranch next door, (916) 991-6818.

William Land Park on Freeport Boulevard (State 160 and Sutterville Road) is vast and shaded, has gardens, zoo, pony rides, Fairytale Town.

American River Parkway, 23-mile greenbelt along American River from Nimbus Dam west to Sacramento River (Discovery Park), is for bikers, walkers, riders (horse rentals from Shadow Glen Riding Stable, Fair Oaks; 916/962-9966). Raft rentals near American River's Sunrise Bridge (Sunrise exit off U.S. 50).

Lodi: *Micke Grove Park/Garden* (see museums). Shaded picnic sites, zoo, amusement park make this a traditional rest stop. Daily 8 A.M. to dusk; $2 per car on weekends, holidays; free on weekdays.



JERRY FREDRICK

SAN JOAQUIN VALLEY

Festivals of raisins and cantaloupes, tours of farms and cheese factories, Stockton to Bakersfield

Compared to the Sacramento Valley, the San Joaquin can seem relentlessly unvarying. At many points, you can look east or west and see nothing to tell you you aren't in the middle of some continent-wide plain. It can be—there is no getting around it—hot in the daytime.

Still, this is the land about which Steinbeck's Pa Joad enthused, "I never known they was anything like her," and there is much to enjoy here.

Agricultural tours (AT on map)

Be sure to read the note on the Sacramento Valley map pages under Agricultural tours.

Manteca: *Delicato Vineyard*, 12001 S. Highway 99; (209) 239-1215. Reserve for tours Fridays at 10, 2, and 4.

Escalon: *Cadlolo Winery*, 1124 California Street; (209) 838-2457. Tours by appointment, 10 to 5 daily.

Ripon: *Rebecca Farms*, 18666 Mello Avenue; (209) 599-2167. Up to 10 individuals can be added to existing tours set for Tuesdays and Thursdays through October. You'll visit hens, see eggs washed, sized, packaged, then cook your own omelet for lunch. Cost: $6.50 per person. Reserve with Juli Carlson or Rosemary Dreike.

Oakdale: *Hershey Chocolate Company*, 1400 S. Yosemite Avenue; (209) 847-0381. Tours weekdays from 8:15 to 3 P.M.

Riverbank: *Riverbank Cheese Company*, 6603 Second Street; (209) 869-2803. Tours Monday, Tuesday, Friday at 8, 9, 10 A.M.

Stanislaus County Cheese Company, 3141 Sierra Avenue; (209) 869-2558. Short, informal tours from 9:30 to 5:30 daily; $1 adults, 50 cents children.

Modesto: *California Almond Growers Exchange*, 4800 Sisk Road; (209) 545-3222. Tours weekdays at 10, 1, and 2. Liveliest time is after nuts are knocked in early fall.

Tri/Valley Growers, Plant 7 on Mitchell and Finch roads (across from the airport), will open tours of the world's largest cannery for *Sunset* readers August 11, at 9, 10, and 3. No reservations needed.

Madera: *Ficklin Vineyards*, 30246 Avenue 7½; (209) 674-4598. Tours by appointment.

Papagni Vineyards, 31754 Avenue 9; (209) 485-2760. Tours weekdays 8:30 to 4:30 by appointment.

Quady Winery, 13181 Road 24; (209) 673-8068. Tours daily by appointment.

Fresno: *California State University Fresno*, c/o Public Information Office, Cal State Fresno, Fresno 93740; (209) 294-2795. Like the farm at Chico, a visit here makes an enjoyable break for a carload of kids. It's open daily; write or call for self-guided tour information.

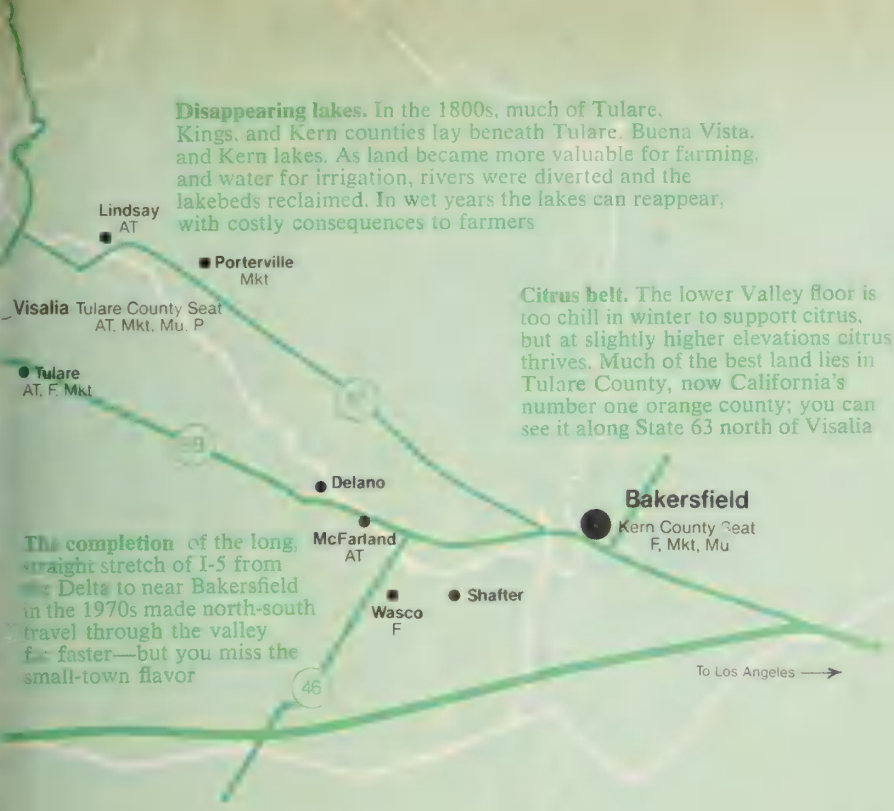
Barnyard full of baas: *visitors to Cal State Fresno farm see lambs, other animals*

Cribari and Sons Winery, 3223 E. Church Avenue; (209) 485-3080. Drop in for daily tours at 10, 11, 1, 2, 3.

Nonini Winery, 2640 N. Dickinson Avenue; (209) 264-7857. Tours Monday through Saturday by appointment.

Kingsburg: *Sun-Maid Growers of California*, 13525 S. Bethel Avenue; (209) 896-8000. Tours (including a film) Monday through Friday at 10 and 1 in summer. Call Sheri Brandon for reservations. Visit late August through September to see grapes drying on paper trays along vineyard rows.

Lindsay: *Lindsay Olive Growers*, 650 West Tulare Road, Lindsay; (209) 562-5121. See a film on olive harvesting and processing and taste samples 10 to 4 Monday through Friday.



During cotton-ginning season (October to December), write or call ahead to arrange a tour of any of these Tulare or Kern County cotton gins:

Visalia: *Visalia Cooperative Cotton Gin*, Avenue 336 and Road 132; (209) 732-1365.

Tulare: *Kaweah Delta Cooperative Gin*, 626 W. Cartmill Avenue; (209) 686-2823.

Producer's Tulare Gin, 3688 N. Oakmore; (209) 686-5224.

McFarland: *McFarland Cooperative Gin*, ¾ mile west of State 99 at corner of Elmo Highway and Garzoli Avenue; (805) 792-3134. In late August and September, McFarland is hub of the *Central Valley Almond Association*. You can see the huller at work. Almond orchards are nearby.

Fairs and festivals (F on map)

Stockton: San Joaquin County Fair; August 9 to 21; (209) 466-5041. Ag. Expo, January 18 to 20; (209) 466-7066.

Riverbank: Wine and Cheese Festival, October 9 and 10; (209) 869-4541.

Ceres: Harvest Festival, September 22 to 25; (209) 537-2601.

Turlock: Stanislaus County Fair, July 30 to August 7; (209) 634-7253.

Merced: Merced County Fair, July 13 to 18; (209) 722-1506.

Firebaugh: Cantaloupe Festival, August 19 to 22; (209) 659-3701.

Madera: Madera District Fair, September 22 to 26; (209) 674-8511.

Kerman: Harvest Festival, September 9 to 12; (209) 846-8728.

Fresno: Big Fresno Fair, October 4 to 17; (209) 255-3081.

Sanger: Grape Bowl Festival, September 16 to 19; (209) 875-4575.

Dinuba: Raisin Festival, September 24 and 25; (209) 591-2707.

Kingsburg: Watermelon Festival, July 31; (209) 897-2925.

Tulare: Tulare County Fair, September 21 to 26; (209) 686-4707. California Farm Equipment Show, February 8 to 10; (209) 688-1751.

Wasco: Rose Festival, September 11 to 12; (805) 758-2746.

Bakersfield: Kern County Fair, September 23 to October 3; (805) 831-8540.

Farmers' markets (Mkt on map)

Many of these telephone numbers are private homes.

Stockton: Saturdays 7 to noon, between El Dorado and San Joaquin streets (under crosstown freeway); (209) 943-1830.

Manteca: Tuesdays 7 to 1, Library Park; (209) 943-1830.

Tracy: Wednesdays 7 to 1, Central Avenue and Ninth Street; (209) 943-1830.

Modesto: Thursdays and Saturdays 7 to noon, 16th Street between H and I streets; (209) 524-7590.

Merced: Saturdays 7 to noon, N and Main streets; (209) 722-8820.

Fresno: Summer, daily except Mondays 8 A.M. to noon, Vineyard Shopping Center, Blackstone and Shaw; (209) 222-0182.

Two other farmers' markets are planned for southeast and west Fresno; details not set at press time. Call (209) 233-4727 for update.

Hanford: Fridays and Saturdays 8 to 1; Old Courthouse Square; (209) 582-0483.

Visalia: Saturdays 7 to 11, Acequia and Church streets; (209) 733-6791.

Tulare: Tuesdays 8 to noon, J and San Joaquin streets; (209) 733-6791.

Porterville: Thursdays 7:30 to 12:30, 187 W. Olive Street; (209) 733-6791.

Bakersfield: (Central area—Saturdays 6 A.M. to sell out, 21st and M streets. Oildale—Thursdays 4 P.M. to sell out, 115 E. Roberts Lane. Stockdale—Tuesdays 4 P.M. to sell out, 1301 New Stine Road. For information on all three Bakersfield area markets, call (805) 323-7897.

Museums with agricultural collections (Mu on map)

Stockton: *The Haggin Museum*, 1201 N. Pershing Avenue in Victory Park. Holt wing devoted to Benjamin Holt, inventor of caterpillar tread tractor. Also Miwok Indian exhibits, art. Tuesday through Sunday 1:30 to 5; free.

Modesto: *McHenry Museum of Art and History*, 14th and I streets. Tuesday through Sunday noon to 4; free.

Miller's California Ranch Horse and Buggy Display, 9425 Yosemite Boulevard (State 132), 10 miles east of Modesto. Collection of old-time vehicles. Daily 9 to 5; $1.50 adults, 50 cents children; (209) 522-1781.

LeGrand: *Tractor collection* (over 1,000) gathered by Arthur Bright, 5246 S. Plainsburg Road (near State 99 and LeGrand Road). Weekdays 8 to 5, Saturday 8 to 12; free.

Madera: *Madera County Museum* (old courthouse), 210 W. Yosemite Avenue. Saturday and Sunday 1 to 4 P.M.; free.

Fresno: *Kearney Mansion*. Turn-of-the-century mansion built by grape and raisin pioneer; open for tours Thursday through Sunday 1 to 4 P.M. (last tour leaves at 3:30); $1 adults, 25 cents children. Park adjacent.

Selma: *Selma Pioneer Village*, Art Gonzales Parkway. Old buildings and other exhibits from Fresno County. Tuesday through Friday 10 to 4, weekends 10 to dusk; $2 adults, 50 cents children.

Visalia: *Tulare County Museum*, in Mooney Grove Park. Mooney Boulevard. Well-maintained historic buildings, exhibits. Daily 10 to 4; 50 cents.

Bakersfield: *Kern County Museum's Pioneer Village*, 3801 Chester Avenue. Sixteen-acre arrangement of historic buildings, displays. Monday through Friday 8 to 3:30, Saturday, Sunday, holidays, 10 to 3:30; $1 adults, 75 cents children.

A sampling of parks (P on map)

Stockton: *Oak Grove Park*. Impressive valley oaks; also tables, lawns, duck pond, and (open Saturday 10 to 1) a nature center. Park open daily 8 A.M. to dusk; $1.50 per vehicle fee on weekends and holidays. Take I-5 north of Stockton; exit east on Eight Mile Road.

Ripon: *Caswell Memorial State Park* contains stream-cooled picnic and camping sites. From State 99, take Austin Road 6 miles south; $2 day use, $5 overnight.

Delhi: *McConnell State Recreation Area* on the Merced has a small campground and picnic area. Take El Capitan Way east 3 miles, go south 2½ miles on Pepper Street. Same fees as Caswell.

Newman: *George J. Hatfield State Recreation Area* at a bow in the Merced has tall oaks. From I-5, take the Newman exit; go east to Kelly Road and on to the park. Same fees as Caswell.

Fresno: *Kearney Park* surrounds Kearney Mansion, contains picnic sites and a 7-mile-long palm-sentried entrance drive. From State 99, take the Fresno Street exit, go southwest 3 blocks to Kearney Boulevard Gateway on your right, follow the boulevard 7 miles west. Free.

Visalia: *Mooney Grove Park*, including the Tulare County Museum (see museum listing), is a fine rest stop: shady, well-kept, expansive. From State 99, take State 198 east to Visalia, then turn south on Mooney Boulevard. Open 8 to 10 daily.

lings with no assurance that the fruit they'll bear in five years will find a profitable market. (One grower's philosophy: "If someone tells you they made money on something last year—don't plant it.")

But, adds Linden grower Marcos Mendez, "We face a lot of problems our grandfathers never thought about."

Maybe the most visible examples of the strength (and pressures) of modern agriculture are the machines you'll see working throughout this harvest season. The valley's love for state-of-the-art technology is a long and enduring one: the world's first wheat combine was used here in 1854; the first commercially significant caterpillar tread tractor was designed, in 1906, by Stockton's Benjamin Holt. (It is on display at Stockton's Pioneer Museum—see page 65.) Farm machinery of the 1980s often looks more like a space module than a plow.

New four-row cotton pickers will begin work in the San Joaquin in October, curler-like spindles snagging cotton at a whirlwind pace of three acres an hour. August and September's almond harvests host a parade of intriguing equipment: one machine's jaws clamp a tree trunk and shake loose a storm of almonds, another sweeps nuts into neat rows, a third picks up nuts en route to the huller.

Less visible is the genetic engineering, much of it—like much of the mechanical advances—pioneered through the University of California at Davis. The two combined have helped Sacramento Valley rice growers reap two to eight times the yields per acre of any other rice-growing region in the world. And last decade new breeds of tomatoes sturdy enough to withstand the new mechanical harvesters combined to save the valley's canning tomato industry. (Watch for them working round the clock—moving through the fields like UFO's—from Bakersfield to Fresno this month, then north to Yolo County in September.)

This mechanization has both streamlined and complicated the farmer's life. The Dixon almond grower who once shook his almonds from a tree with a $3 padded mallet now uses a $75,000 mechanical system. As one Butte County grower told us, "A lot of farmers end up parking their bottom line in the barn."

Best stops to learn about today's technology are the winter farm shows at Colusa, Stockton, and the biggest, at Tulare (see map pages). More accessible this time of year are sales rooms that line main roads into valley towns where equipment by John Deere, International Harvester, Allis Chalmers, and many other manufacturers are sold. If the dealer's time permits, you may even get to climb aboard cabs that pamper operators with stereo-equipped ease.

All you see as you drive along valley roads may seem healthy enough, but we need to remember that human misuse helped destroy the once-great Fertile Crescent, mentioned earlier. These issues are causing concern:

Urbanization: The 1980 census revealed the region's fast-paced population growth. Sacramento County increased 23 percent, Stanislaus 36. Californians who remember the loss of farmland in the San Fernando and Santa Clara Valleys wonder if the same fate might befall large chunks of the Sacramento and San Joaquin as well.

The issue is not clear-cut. Over the last 15 years, the valley land lost to urbanization has been matched by farmland added as new water projects allowed increased irrigation. But such additions can't be made indefinitely, and it's doubtful if the new lands are equal in quality to the old.

California's 1970 Williamson Act was designed to protect agricultural lands by reducing property taxes on acreage kept in farming; critics question whether the reward is still enough to prevent development.

Concerned cities and counties are grappling with the problem. Modesto and Lodi have passed initiatives demanding a city-wide vote each time any more farmlands are to be annexed. And a first-in-the-nation program is now tracking the amount and quality of acreage going in and out of farm production.

Pollution: Cities mean air pollution—a greater problem to agriculture than once thought. Experiments near Fresno document that air pollutants can reduce by 10 to 25 percent the yields of Thompson seedless grapes and some strains of cotton and alfalfa. Experiments on other crops are just beginning.

Economics: Escalating land, equipment, and energy costs mean valley farming demands financial acumen never before imagined: many farmers are surviving on borrowed money and, if the current economic spiral continues, on borrowed time. Because land values have attracted speculators and subdividers (driving prices up further), few young people can afford to enter agriculture today.

Are such pressures dooming the traditional family farm in the Central Valley? Recent surveys show an increase in both very large and very small holdings (two-thirds of California farmlands are owned by 3 to 4 per cent of the farmers). But, as one optimistic Fresno County grower notes, "Even some corporations admit the family farm is the most efficient operation there is. We're here all the time and can respond the minute something needs doing. There's a saying: the best fertilizer is the farmer's shadow on his own field. That's still true."

Water: Water looms in the minds of most California farmers as the key issue of the

Farm machines at work and on display . . . antique to state-of-the-art. And many matters of concern

JERRY FREDRICK

Powerful steam traction engine *used by 1902 valley farmers still pulls its weight at California State Fair*

Four-row corn harvester *gets once-over from Tulare farm show crowd; it picks corn and separates kernels from cob*

1980s. For many of them it will grow more expensive as the power needed to transport it grows more expensive. And n certain areas it may become dangerously scarce.

Years of mining the San Joaquin Valley's underground water resources have depleted them; some estimate that the valley annually loses 1.5 million acre-eet of ground water. In part of Tulare County, the water table has dropped 20 eet per year in recent dry years.

A companion problem is salinization—a side effect of the irrigation that made he Central Valley blossom. All water contains trace amounts of mineral salts. When fields are irrigated, plants use the water, but in areas with poor subsurface drainage the salts remain and can build up to harmful levels. Yields drop; salt ensitive crops like apricots and peaches must be replaced by salt-tolerant crops ke cotton; eventually all that the land an support is Russian thistle.

ome estimates are that salinization curently affects more than 400,000 acres of Central Valley land, and that this figure may rise to 1.1 million acres by the end f the century. Proposals for easing the roblem include the construction of hannels that would lead to a master, alt-catching drain west of Merced; high ost and environmental hazards remain najor obstacles.

n the meantime, as farmers and those oncerned with farming—which means l of us—try to find the balance that ill provide food and preserve the environment, you can enjoy the valley as it today. Savor the smell of ripe July eaches, the view across pear orchards the languid Sacramento River, the osed rows of oranges on the Tulare ounty foothills. "There is," one Stanisus County farmer told us, "a real joy this life." □

HN M. LUND

venty tons *of crimson tomatoes were picked y mechanical harvester in an hour. At right, rice harvesters cut wide swath near Colusa*

PHILIP WALLICK

Wide-skirted flowers *of hybrid abutilon dang overhead from a horizontal branch so you look up into them. Bougainvillea grows behi*

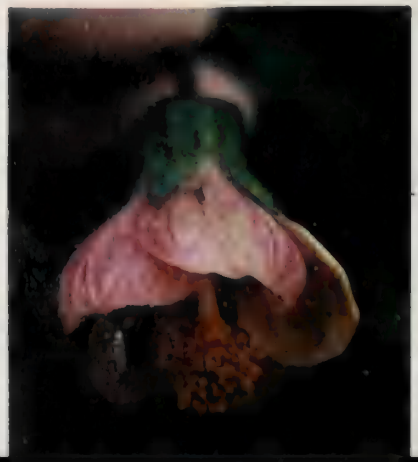
WILLIAM APLIN

Abutilon megapotamicum, *shown close up at left, forms espalier backdrop for clivia and ferns in Charles Culp's Laguna Beach garden. Design: Frederick M. Lang*

BILL ROSS

Profuse with bloom, *hybrid abutilon has drooping growth habit. This branch is on a 6-foot-tall, 6-foot-wide shrub*

JERRY FREDRICK



New in nurseries *for 1982: Hybrid 'Luteus' (far left) has striking yellow flowers, black stems. Short petals on 'Roseus' (left) reveal prominent stamen cluster. Both flowers are 1½ inches across*

Garden rediscovery... the flowering maples

Humdrum history, questionable ancestry, but maybe now's their time. They're colorful, summer-blooming. They can grow as high as a house . . . or in a basket

It has always been easy to dismiss abutilons with a passing glance. Usually relegated to being a foil for showier plants, these big shrubs—often called flowering maple, Chinese bellflower, Chinese lantern, or parlor maple—have been appreciated as a garden mainstay only by a small number of enthusiasts. For decades, if nurseries sold abutilons at all, they offered few varieties minimally labeled, usually only by color.

But times change. This summer for the first time in 15 years, two new abutilon varieties will be introduced in Western nurseries. (They are pictured in the lower photographs on opposite page.)

Abutilons can be grown outdoors along the California coast, in mild-climate inland valleys, and in the low desert. Elsewhere, they are greenhouse or indoor plants that can come out for the summer. When outdoors, abutilons attract hummingbirds.

What are abutilons like and where do they grow?

The largest group of abutilons—and the easiest to find—consists of ones with questionable ancestry, all known as *Abutilon hybridum*. Most do not have specific names; they are labeled "yellow abutilon," "pink hybrid abutilon," or given a similarly vague identification. Most of those pictured on opposite page belong to *A. hybridum*. A few, like this year's two new ones, *do* have names.

The hybrids are similar in growth habit: they have woody stems, large maple-like leaves, and bell-shaped flowers in shades of cream, yellow, orange, pink, and red. They can grow to about 10 feet tall and as wide with slightly weeping branches.

Abutilon megapotamicum has many thin, viny branches. This vigorous species can cover the wall of a two-story house—as much as 20 feet tall and as wide in a few years. As the close-up photograph opposite shows, its hourglass-shaped flowers are yellow with red caps. Breeders have developed some *A. megapotamicum* hybrids, but they are usually available only from hobbyists.

Another abutilon that is fairly easy to find is *A. pictum* 'Thompsonii', shown at right, whose main attraction is its variegated green leaves with creamy yellow spots. Although it will grow outdoors, this variety is often planted in a pot and kept indoors or on a patio.

Where abutilons grow outdoors, they bloom year-round except for midwinter. If you live along the coast, plant them in full sun. Inland, most will survive in sun but do best in light shade.

In desert gardens, grow abutilons along a north-facing wall; cover plants in winter when freezing temperatures are expected (they can survive short periods down to about 26°). In the coastal Northwest and in cold-winter areas, grow abutilons indoors, in a greenhouse, or in a container that can be brought indoors in winter.

How do you grow them?

Use *A. hybridum* plants as large, free-standing shrubs. You can also grow them against a wall or fence or up a trellis, though they require training and pruning to keep in shape.

The drooping, vining branches of *A. megapotamicum* make it one of the best abutilons for an espalier. This same growth habit also makes it an excellent candidate to use in a hanging basket.

When you plant, which you can do anytime in summer, provide fast-draining soil. Feed regularly with complete fertilizer. Water often enough to keep soil moist but not wet.

Abutilon pictum *'Thompsonii' has creamy yellow-and-green variegated leaves, orange flowers. Grow in pot or ground*

After planting, bait to keep snails and slugs from damaging small abutilons. If plants attract aphids, scale, or whiteflies, treat them with insecticide soap (sold at nurseries); for a severe infestation, use a systemic insecticide.

Where to find plants or seeds

Scattered nurseries in the West carry the abutilons shown here; a few have a wider selection. July is a good time to shop. If you cannot find abutilons in your area, turn to page 160 for a listing of Western nurseries that sell them, plus some mail-order sources of plants and seeds. □

GLENN CHRISTIANSEN

Believe it or not, *these portable frames are comfortable beach chairs*

Step *on edges of bottom dowel to work 1 by 2's into the sand*

Slide *seat section out from back, then turn the pieces around*

These are beach chairs?

One is just a sling for a towel. The other's a plywood slide-together. Both are inexpensive, easy to make

Tuck *towel edge between top dowels; wrap towel around them so it will hold*

Stretch *towel out, then lie back; shift your weight to adjust recline angle*

Slip *back legs between horizontal 1 by 2's until seat butts against frame*

Sit down; *adjust chair to comfortable position by rocking it into the sand*

People stop laughing at these beach chairs as soon as they sit in them—they're comfortable. The wooden chair costs about $5 in materials and should take you no longer than a morning to build. The sling uses a beach towel as its back; it costs about $15 and can be built in about 20 minutes.

Both chairs are easy to carry and lightweight—the sling frame is just over 4 pounds, and the chair just over 5. The sling frame may seem cumbersome, but when you lie back against it and let the towel cradle you and protect you from the wind, you'll understand its design.

Towel sling: improving on a classic

We arrived at the design for the sling frame by starting with a beach classic—the canvas A-frame backrest that sits on the sand—and reduced it to its essential support parts. Basically, the frame elevates one end of your beach towel so you lean up against it. Then your weight holds the towel in the most comfortable position for you.

The wrapped towel binds on itself to stay in position but comes right off for cleaning. The frame is designed for a 3-foot-wide towel 5 or 6 feet long; adjust the dowel length for narrower towels.

To build a sling frame, you'll need three 1-inch hardwood dowels each 3 feet long and two 3-foot birch (or other hardwood) 1 by 2's.

Cut 45° angles on one end of each 1 by 2. In the 1 by 2's, drill centered 1-inch holes 1¼, 2⅜, and 24 inches down from the flat ends. Glue the dowels firmly into the holes.

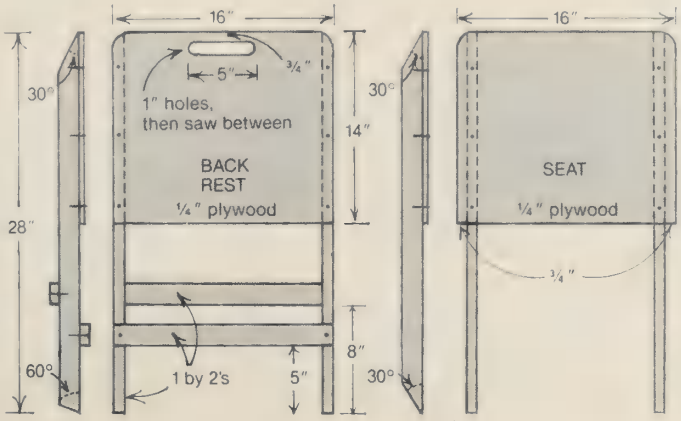
Wooden chair: it keeps you off the sand

The slide-together chair lets you sit up off the sand at the beach, or it could be set up anywhere.

You'll need two 14- by 16-inch pieces of ¼-inch exterior fir plywood (make sure the grain runs parallel to the 16-inch edge), four 28-inch and two 16-inch fir 1 by 2's, twelve 1¼-inch number 8 flathead woodscrews, and four 2-inch number 10 woodscrews.

Assemble as in the sketch. The angled cuts on the legs make the chair sit flat on a hard surface; the ones under the seat keep you from scraping the backs of your legs when you get out of the chair.

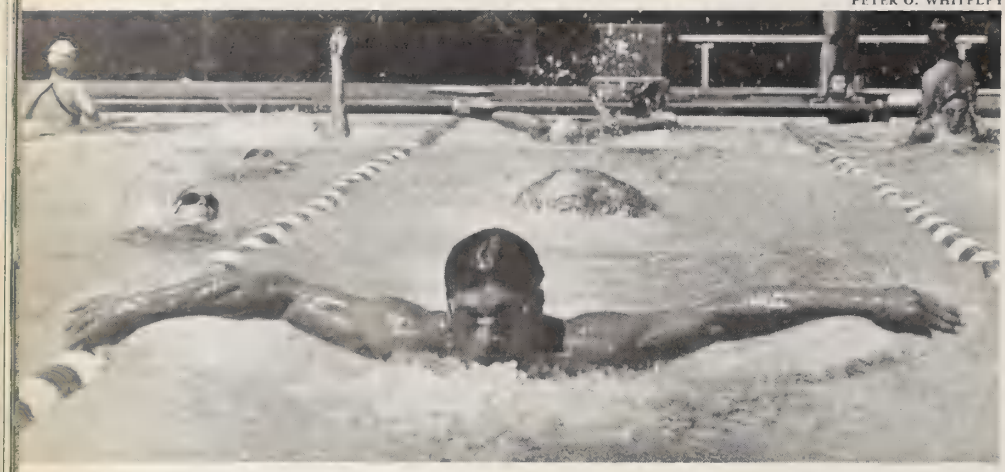
Glue and screw all connecting surfaces; use a screw pilot to set the screws. The 1¼-inch screws go through the plywood, the 2-inch screws through the 1 by 2's. Sand down all corners and points, and seal or paint the chair if you like. □



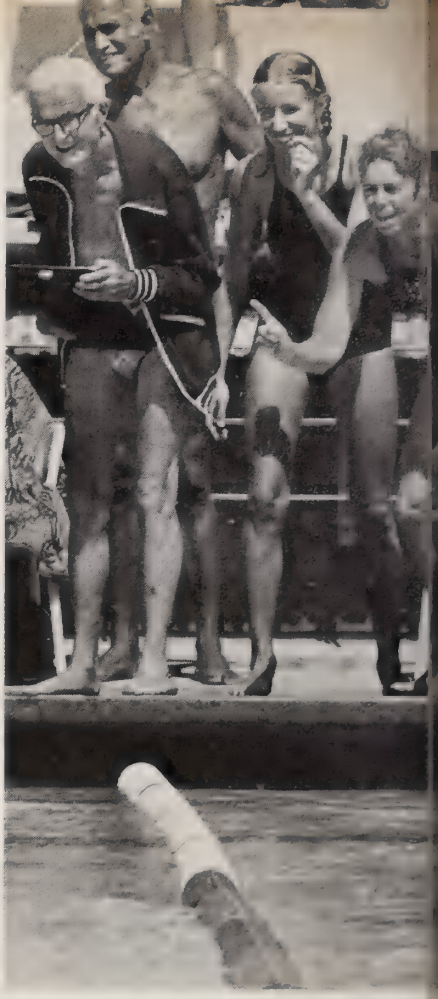
Cut *angles on feet first, then attach plywood and 1 by 2's*

Airborne swimmers *start race at 50-meter pool in City of Industry, California*

PETER O. WHITELEY



Swooping butterflyer *is in a line with three other swimmers at a noon workout in Davis, California, where interest is so high there are 10 daily training sessions*



Teammates urge on *swimmer at race where crowds are family and friends*

Swimming for fun, fitness, even competition...for all ages. It's called masters swimming

Adult fitness swimming has quietly lapped all other sports to become the nation's most popular recreational exercise, according to a national sports poll. More men and women swim seriously—at least 20 minutes three times a week—than jog. It is a sport that makes you use nearly all the muscles in your body, and along with jogging, is one of the best cardiovascular conditioners we have.

To get into the swim of things, all you need is a suit, goggles, and a pool, but serious lap swimming has to be done in a pool at least 20 yards long. Because of growing interest, many community pools, YMCAs, health clubs, and high school facilities now open for early-morning, noon, and evening swimming. There are even large companies that have built lap pools. (The Rolm corporation of Santa Clara, California, has a three-lane 25-yard pool used by 150 swimmers.)

An organization called United States Masters Swimming runs a complete program for adult swimmers. Some 75 Masters swim clubs throughout the West hold daily workouts, have their own coaches, and sponsor teams for members who wish to compete. Nationally 15,000 men and women belong, from age 25 to over 90.

You don't have to be a good swimmer to join the Masters

CHAD SLATTERY

Ecstatic quartet *celebrates record in relay race. They compete in the 65- to 69-year old bracket*

ETTA CLARK

A relaxed Joe Bruno *is set to swim across the Golden Gate again —he's done it over 50 times. Rough-water swim competitions are increasing, and they're also being held in inland lakes and rivers*

Swimming program. Most people are in it for fun and fitness. For the name of the club nearest your home, write to Michael Gilmore, Box 5901, Santa Monica, Calif. 90405. Annual dues run about $10.

The key to fitness swimming is the workout. Swimming back and forth for half an hour can be boring, so finding ways to make swimming more interesting is important. Basically a workout should start with a warmup, then accelerate into vigorous swimming with repetition of different distances (repeat 50-, 100-, and 200-yard swims several times)—sometimes only kicking or pulling, sometimes using each of the four basic strokes (freestyle, breaststroke, butterfly, backstroke).

The idea is to raise and sustain your heart rate to 70 percent of its maximum safe rate for your age. (One way to determine this: subtract your age from 220 and multiply by .7.) There are several books available to help you improve your workouts. There's also a Los Angeles - based magazine, *SwimSwim*, for fitness and Masters swimmers; for a sample copy, write to 703 S. Union Ave., Los Angeles 90017.

For many swimmers, competition tells them how their training is going. Masters Swimming holds many local and regional meets throughout the year. The National Long Course Championships will be held this summer in Portland (August 26 to 29 at Mount Hood Community College).

Although everyone tries hard, the meets tend to be low-key and fun. Competition is by sex and age group in five-year increments starting with 25- to 29-year-olds and running to the 90+ group. Swimmers of all abilities may compete in the same race. Personal improvement, not beating someone else, is what is emphasized. □

Yugoslavs know how to picnic

Join us at a colorful outdoor meal. Starting with *kajmak* on crusty farmer's bread. Then pork and veal cubes on skewers. Ending with dessert and dancing

Yugoslavia's cuisine is as diverse as its many regional ethnic groups. Since the end of World War I, the Serbs, Croatians (including Dalmatians), Slovenes, Macedonians, and Montenegrins have lived side by side within the geographical boundaries designated as Yugoslavia. Yet their customs and styles of cooking reflect their prewar regional heritage.

Based on Yugoslavian dishes we have sampled during our travels and at ethnic picnics here in the West, we have assembled a fresh, colorful party menu that combines favorite foods from several regions. At first glance, the menu—designed to serve 16 to 20 guests—may seem ambitious. Yet the dishes are reasonably simple to assemble ahead of time, in steps. All the foods are served at room temperature, so you need not worry about keeping foods hot.

Feta Cheese Spread **Sliced Prosciutto**
Eggplant Relish **Tomato-Pepper Relish**
Farmer's Bread
Grilled Pork and Veal Kebabs
Stuffed Cabbage Leaves
Potatoes and Beans in Olive Oil
Chunky Vegetable Salad
Crisp-fried Cookies **Fresh Fruit**
Strong Coffee

For the appetizer course, an approximation of Yugoslavian *kajmak*—a lightly fermented soft white cheese—can be enjoyed alone on chunks of the crusty bread or topped with prosciutto, which resembles Dalmatian ham. You can also add a spoonful of one of the relishes: *ajvar*, a mild eggplant and sweet pepper mixture, or more daring *pindzur*, a mild chili and tomato relish. All the appetizer recipes can be found on page 134. For the mainstay of the meal, cubes of grilled pork and veal are served with the relishes and paprika-seasoned stuffed cabbage leaves.

Crisp traditional cookies (recipe on page 136), fruit, and coffee conclude the meal.

Grilled Pork and Veal Kebabs (*Raznjici*)

Cut about 3 pounds *each* **lean boneless pork leg** and **veal leg** into 1½-inch cubes. Sprinkle lightly with **salt** and **pepper,** then mix with ½ cup **olive oil.**

In a large bowl, layer the seasoned meat with 2 cups thinly sliced **onion.** Cover and chill at least 6 hours or as long as overnight.

You'll also need 30 fresh or dry **bay leaves.** *If using dry bay leaves, cover with boiling water, let soak 2 hours.*

To assemble, thread a cube of pork, a cube of veal, and a bay leaf alternately on 10 to 16 metal skewers until all ingredients are used.

Lay skewers on a greased grill 6 inches above a single layer of hot coals that are covered with gray ash. Cook, turning frequently, until pork is no longer pink in center, 20 to 25 minutes. Serves 16 to 20.

Stuffed Cabbage Leaves (*Sarma*)

2 heads (about 2 lb. each) cabbage
Boiling water
Paprika filling (recipe follows)
1 can (6 oz.) tomato paste
1 cup water
1 can (1 lb.) sauerkraut, drained
1 cup (8 oz.) sour cream
Salt and pepper

Core cabbage and immerse 1 head at a time in a large kettle of boiling water to cover; boil gently, uncovered, until leaves are limp, about 6 minutes. Lift out; carefully pull off about 12 leaves from each head; cool. Reserve remaining cabbage for other uses.

Place about ¼ cup paprika filling in center of each cabbage leaf. Roll from stem end, turning in sides to enclose filling and form a tight bundle.

Mix together the tomato paste and 1 cup water; pour into a large (at least 12- by 15-inch) roasting pan. Top with the sauerkraut and the cabbage rolls (seam side down.) Cover and bake in a 350° oven for 1½ hours or until the filling feels firm.

With a slotted spatula, lift cabbage rolls to a serving platter. Bring pan juices (with sauerkraut) to boiling. Remove from heat and blend in the sour cream and salt and pepper to taste. Spoon sauce over cabbage rolls. Serve warm or at room temperature. Makes about 24 cabbage rolls, or 16 to 20 servings.

Paprika filling. Cook ½ pound **bacon** in a 10- to 12-inch frying pan over medium heat until crisp; drain and crumble, reserving drippings. To drippings add 2 large **onions** (chopped) and 3 to 4 cloves **garlic** (minced or pressed); cook, stirring, until onion is limp. Add ½ cup **long-grain white rice** and 1 cup **water;** bring to a boil, reduce heat, and simmer until rice is tender to bite, about 20 minutes. Cool slightly and add bacon.

Mix in 2 pounds **ground lean pork;** 4 **eggs;** 2 tablespoons **paprika;** 1½ teaspoons *each* **marjoram leaves, caraway seeds,** and **salt;** and ½ teaspoon **pepper.**

Potatoes and Beans in Olive Oil

Cook about 3 pounds (6 large) **thin-skinned potatoes** in **boiling water** to cover, with lid, until tender when pierced, about 35 minutes. Cook 2½ pounds **green beans** (ends removed) in boiling water to cover, without lid, until tender when pierced, 8 to 10 minutes. Chill in **ice water;** drain. Peel and quarter potatoes. Arrange vegetables on a platter.

Stir together ½ cup **olive oil** and 2 teaspoons **oregano leaves;** gently mix with vegetables. Season with **salt, pepper,** and chopped **parsley.** Serve at room temperature. Serves 16 to 20.

Vegetable Salad

In a large bowl, mix together 3 large **tomatoes,** cut into 1-inch pieces; 3 each large **red** and **green bell peppers,** cored and seeded, then cut into 1-inch pieces; 1 large **European cucumber,** cut into ¼-inch slices; and 1 large **red onion,** cut into 1-inch pieces. Cover and chill.

For dressing, blend ⅔ cup **olive oil,** ⅓ cup **white wine vinegar;** 1 clove **garlic,** minced or pressed; ⅓ cup **feta cheese,** crumbled; and **salt** and **pepper** to taste.

Tear 1 large head **romaine lettuce** into bite-size pieces. In a large serving bowl, mix lettuce with half the dressing. Mix remaining dressing with vegetables; pile atop lettuce. Serves 16 to 20. □

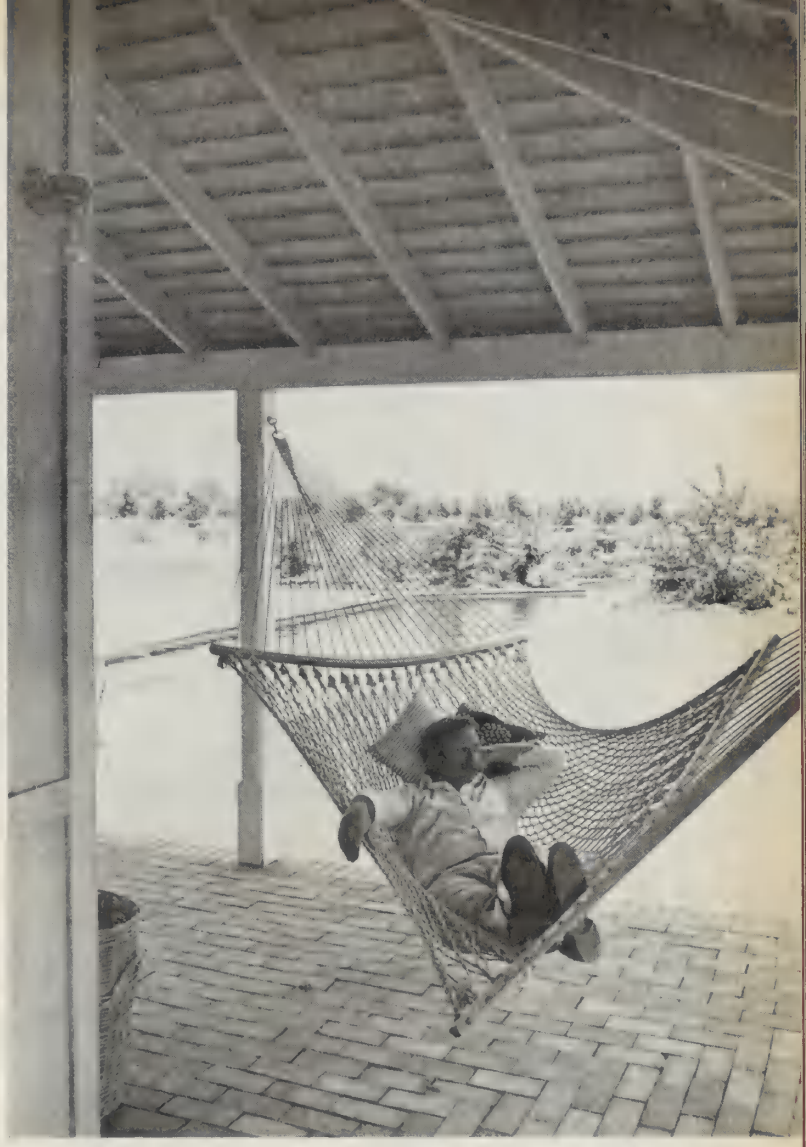
Slavic picnic buffet *includes cabbage rolls with tomato sauce, seasoned potatoes and green beans, grilled pork and veal kebabs, and chunky vegetable salad*

Traditionally costumed *young men spread feta-flavored cheese on chunks of crusty farmer's bread, then top servings with cured ham or a choice of two vegetable relishes*

DARROW M. WATT

To spark appetites, *a Yugoslavian couple from the Junior Tamburitzans of California's Santa Clara Valley leads picnickers in festive dances. Then everyone enjoys dessert of sugared cookies, fruit, and coffee*

Two verandas *on the east side of this Colusa house provide plenty of hot-weather outdoor living area where July highs average 96°. Architects: Key and Laughlin*



Veranda around *protects farmhouse in Modesto (July high: 94°) with a moat of shade. Hammock invites time-honored pastime. Architects: MLTW/Turnbull Associates. House was winner last year in AIA-Sunset Western home awards program*

GLENN CHRISTIANSEN

Verandas, shade galleries...lessons in cool comfort from 90° country

erous overhang, *brightened by e ceiling, provides 400 square feet utdoor living room. Fans help iate air. House is in Yuba City, fornia, where July highs average Architect: Farrar Williams*

ORMARK

In hot inland areas of the West, keeping sun off windows and adjacent paving is the best defense against heat buildup indoors. And in these areas, where summer high temperatures can average over 90° for three months or more, verandas and galleries create cooling buffer zones between house and garden, as well as comfortable areas for year-round lounging and entertaining.

The examples we show are from hotter parts of California and Arizona.

These extensions that filter or block the sun can be integral parts of the design of the house, or can be added on as fixed or movable extensions, as shown on following page.

New-house designs that let verandas do the shading

In the houses pictured above and at left, generous overhangs or porches block the

DARROW M.

Canvas awnings *slide down along guide wires below joists to shelter house and entry deck in Riverside (average July high: 96°). Leading edge of each awning is wood-reinforced to make it move evenly. Architect-owner: Blaine Rawdon*

Woven fiberglass shadecloth, *anchored to fir 3 by 12's, shades west side of house in Phoenix (105° average July high). Cat's claw vine will eventually provide more shade. Architect: William P. Bruder*

DON NORN

West-side shade gallery *is cooling buffer between house and low afternoon sun. Roof openings lighten its looks, allow movement of air. Architect-owner: Gene Coursey, Yuba City, California*

sun completely at critical times of day.

Heat buildup below the roof extensions is not a problem: overhead fans, prevailing winds, or cutouts in the roof help keep air moving.

Although the wide overhangs can darken the space below and rooms next to them, painting the underside a light color, as on page 76, helps to brighten the patio.

Add-on shade galleries of canvas or shadecloth

Shade-creating structures covered with canvas or shadecloth are fairly easy to add to an existing house.

The movable canvas "roof" shown in the top photograph was made in sections, allowing great flexibility in areas to be shaded. In the outdoor room shown at lower left, shadecloth lessens the sun's intensity, yet gives an airy, open look that is further softened by the cat's claw vines (*Macfadyena unguis-cati*).

Canvas is available in various weaves and weights in an assortment of colors, patterns, and finishes. It costs about $7 per yard for cotton and $9 per yard for acrylic fiber and comes most often in 31-inch widths. Most awning specialists ommend heavyweight 10-ounce car for patio overheads. Look in the yel pages under Awnings.

Shadecloth, a mesh woven much lik window screen, comes in saran (gre polypropylene (black), and fiberglass various colors). It's available in 4- to foot widths and a variety of screen c sities; 80-percent density is popular in land and desert areas.

For a complete discussion of differ types of shadecloth, see the July 19 *Sunset*, page 180.

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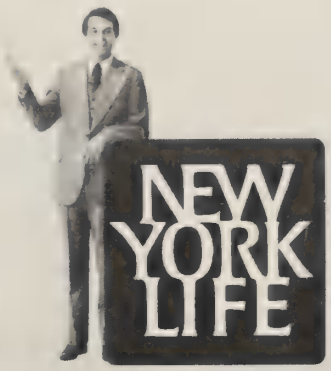

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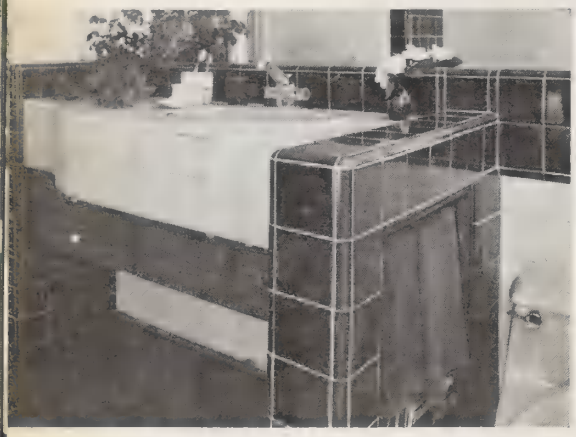
Projecting *16 inches, knee-braced pop-out was framed with 4 by 4's at ends, 2 by 4's between*



Drawers and cabinet *for storage hang below counter. Niche in half-wall holds towels*

Mirror doubles *the brightness of new pop-out. Soffit contains recessed lighting*

PETER CHRISTIAN

Bigger, brighter 1940s bathroom . . . new pop-out, new tile

Before. *Small window lighted 7- by 7½-foot room*

After. *Pop-out extends into yard. Sink and toilet were switched*

Sculptural *tilework conce plumbing to new shower w space for shampoo and so*

Only a shallow, popped-out window bay enlarged this 1940s bathroom. Yet the remodeled space, with its cobalt blue and white tiles, appears much larger as well as updated.

First, Santa Barbara architect Larry Dennis Thompson added the 16-inch-deep double-glazed bay window. Its translucent inner panels can be removed later when outdoor vegetation replaces them as a privacy screen.

A new sink sits in a long curvy counter that ends in a half-wall partition. To frame the counter, Thompson used 2 by 6's with ¾-inch plywood over top and bottom, and closely spaced vertical 2 by 2's on the front face. To form the curve, he scored ¼-inch plywood, ripped through all but one veneer with a table saw, bent it to the curve, and nailed it to the 2 by 2's.

The colorful tilework was done by students in a local owner-builder class. □

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DON NORMARK

Hot southwest-facing wall *has three small windows recessed into thick adobe*

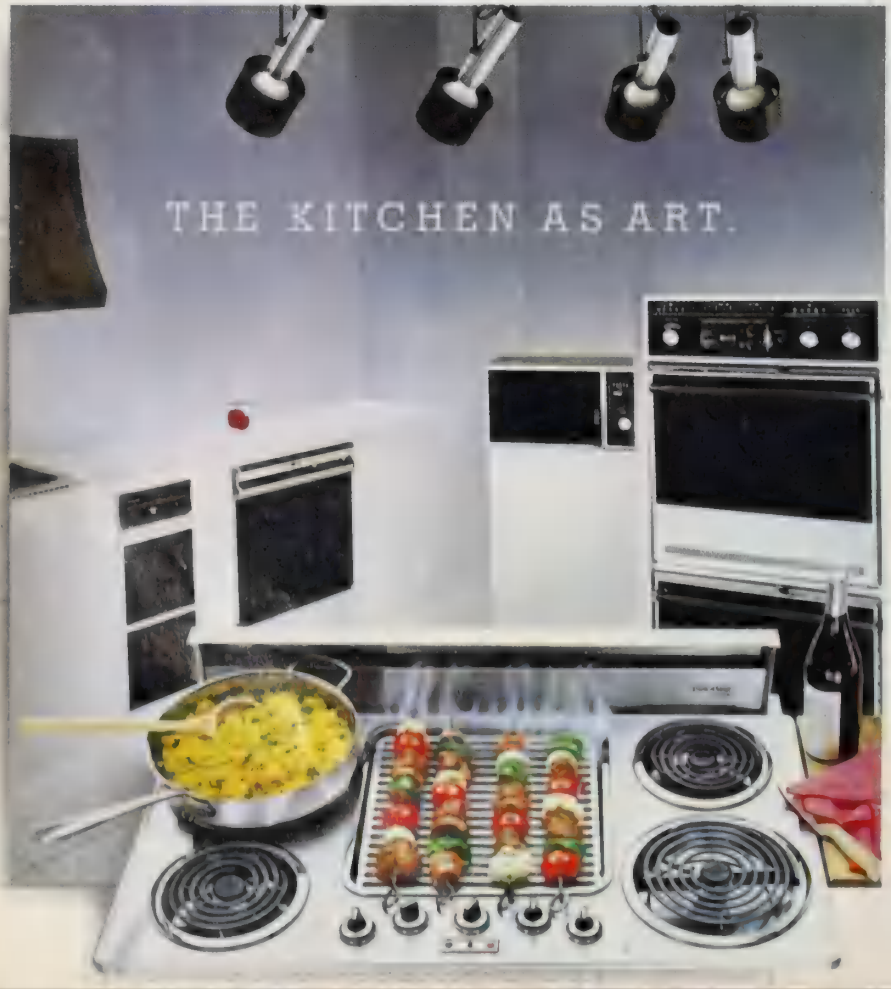
Mini-doors *open to help balance interior light when sun is not too hot*

Beveled door edges *echo form of plastered surrounds*

Three little windows are enough to balance the light

Putting windows in the southwest wall of this Albuquerque house was a questionable idea. Not only is the wall exposed to afternoon sun, but it also faces a glary, heat-reflecting parking area.

Extended eaves or awnings were not appropriate for the house's adobe pueblo design, but designer-builder Nat Kaplan wanted more even illumination in this guest room, so he incorporated the three 1-foot-square recessed windows you see here. Each is fitted with its own tight-fitting pine door to control light and heat and provide privacy. Owners are Ed and Judy Stewart. □



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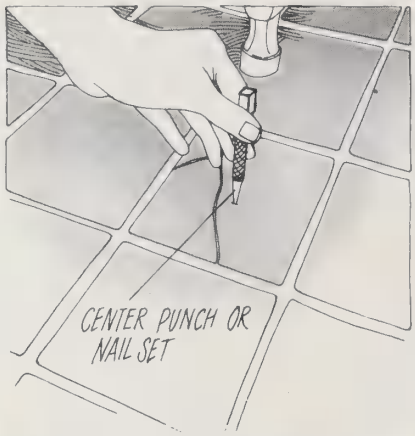
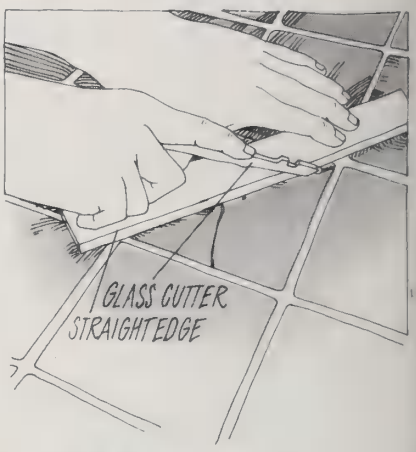
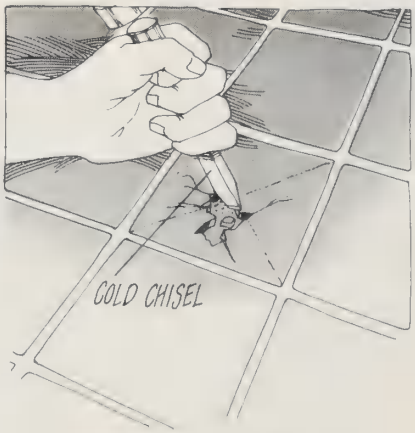
Step by step from a new book ... how to replace broken tile



1 · *Carefully pound nail set or center punch through middle of damaged tile. (If grout is less than ⅛ inch wide, first remove grout using pointed end of a can opener)*



2 · *Hold straightedge firmly and use glass cutter to score damaged tile face. Make a deep × which intersects hole in center of tile*



3 · *Chip out old tile and grout using hammer and cold chisel. Work from the center out, using light, rapid blows*

4 · *Clean opening, removing all old adhesive and grout from subfloor and surrounding tiles. Smooth rough edges with sandpaper*

A sharp blow or a structural shift can leave a ceramic tile sadly disfigured. If the tile is in thin-set adhesive rather than in a thick bed of mortar, repairs may not be difficult. In fact, replacing a tile is simply a matter of chipping out the old tile, setting in a new one, and regrouting around the replacement. Step-by-step

New book *shows how to install, repair, and refinish several types of flooring*

There are, fortunately, still some people in the world who can discern the difference between a car that's worth the money and one that's outrageously overpriced.

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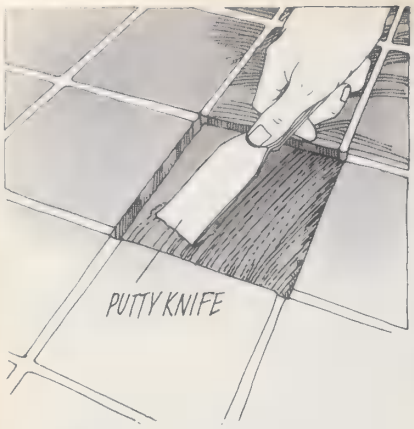
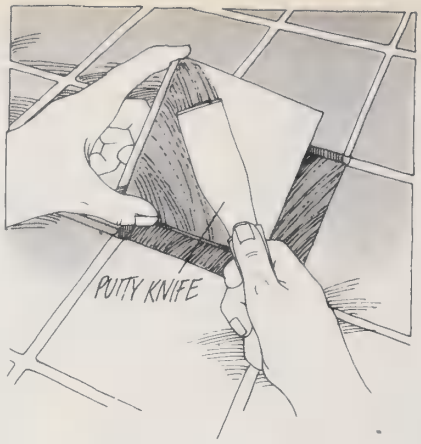
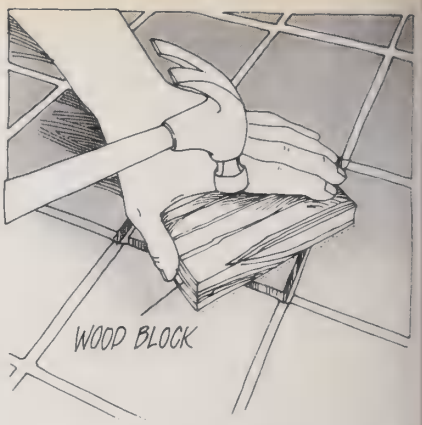


5 • *Build up subfloor surface with patching plaster so new tile will be level with old. When dry, paint plaster with latex primer*



6 • *Spread adhesive over back of replacement tile using putty knife and smooth strokes. Follow adhesive manufacturer's directions carefully*



7 • *Gently tap tile in place with wood block and hammer. Wait 24 hours before applying grout, blocking off area to potential traffic*

This bag of ALAMO BRAND has as much meat protein as 10 lbs. of sirloin. Woof!

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8 • *Use sponge or damp cloth to apply grout around tile. Smooth joints with your finger. Use damp sponge to clean off excess*

directions for making these repairs ar illustrated here.

This is one of several underfoot projec that are clearly detailed in a new *Sunse* book: *Do-It-Yourself Flooring* (Lan Publishing Co., Menlo Park, Calif 1982; $4.95).

The book features photographs of a var ety of home flooring materials and cr teria for selecting what's best for you There are instructions for installin wood, resilient, and ceramic flooring, a well as masonry floors and carpetin Additionally, the book gives concise in structions for floor care.

A large section deals with repairing an refinishing older floors. You can lear how to support sagging floors, how t quiet squeaking floors and stairs, how t sand and refinish wood floors, and ho to repair a variety of floor surfaces.

Half the fun of remodeling is the planning. So get together. Talk it up. Dream a little! And draw on the windows whose beauty and weathertightness assure a grand opening.

Come home to quality. Come home to Andersen.™

Start moving on that improving you two! And use Andersen® windows as the opening attraction.

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Quality. At Andersen there are no compromises. No shortcuts. No seconds. There are only number ones. This quality ensures superior performance. And has for nearly 80 years.

Beauty. The kind that makes your home glow at summer-time, winter-time and selling-time. Our slim lines and long-lasting, don't-need-painting vinyl exteriors are the reason.

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Choice. We offer all 5 window styles, bays, bows and gliding patio doors. In hundreds of sizes. In white or earthy Terratone color. Plus a complete window replacement system.

Visit an Andersen dealer (listed in the Yellow Pages under Windows) and examine an Andersen window.

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Come home to more information on Andersen® windows and gliding patio doors for remodeling and replacing. Mail coupon to Andersen Corp., Box 12, Bayport, MN 55003.

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When you have *a lot to carry, bottom corners of the tote bag push out, as pictured above, providing room for towel, lunch, and other gear. Empty of all but barest essentials (right), bag assumes more compact size: unneeded corners push in*

DARROW M. WATT

Bandanna tote expands to hold more

Almost as casual as Huck Finn's knotted bandanna, this simple but sturdy tote can go everywhere this summer. It's roomy enough to hold a big beach towel and swimsuit, a picnic lunch, or tennis gear, and you can make it in an hour or less.

To make it, you cut, fold, and stitch a large square of fabric into a star shape, then tie the points together for carrying. Use medium-weight (or sturdier) cotton duck or waterproof backpack fabric (available at some sporting goods stores in various colors).

You'll need 1⅞ yards of 54-inch-wide fabric to make the larger bag pictured at left, or 1⅝ yards of 45-inch-wide fabric to make a smaller version. You'll also need chalk or a pencil, a ruler, scissors, thread to match the fabric, and medium-weight cardboard to stiffen the bag's bottom (an 11-inch square for the large bag, a 9-inch square for the small one).

For the larger bag and its bottom liner, cut a 54-inch square and a 12-inch square from fabric; for the smaller bag, cut a 45-inch and 10-inch square.

Making the bag

On the wrong side of the larger fabric square, measure and draw a cross with chalk or pencil to divide square into four equal parts, as in left drawing. Turn raw edges of the smaller square under ½ inch; press and pin, then machine-stitch along one side ⅛ inch from edge.

Position and pin small fabric square in the center of the large one, wrong sides together; align corners with chalk lines as in left drawing. Topstitch ⅛ inch from edges around three unfinished sides; the previously stitched side remains open as a pocket for the cardboard liner.

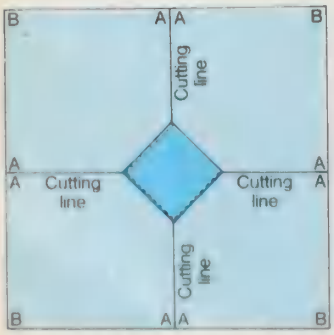
With scissors, cut along chalk lines from points marked AA on left drawing to corners of liner square.

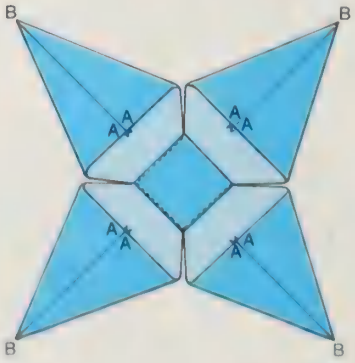
Lay the large fabric square right side up. On each cut section, bring the two corners A together toward the center to form triangles. Pin a ½-inch seam from A to B, as shown on center drawing; machine-stitch. Trim and press seams, then turn triangles right side out.

Fold raw edge of each triangle under ½ inch; press, pin, and stitch through all thicknesses near edge of fold.

To form the bag, on the wrong side pin from the corner of each bottom liner pocket to 7 inches up each side of the triangles toward the points (6 inches for the smaller bag), as shown in the right-hand diagram. Stitch ⅛ inch from edges.

Slip the square of cardboard into pocket in bag's bottom. Turn bag right side out. Knot two adjacent points together, then the other two to form handles. □





Begin *with a large and a small fabric square. Center small square as at left, then cut along lines, hem, and fold to make star shape in center diagram. Complete sewing to form bag shape at right. Dark tone indicates right side of fabric, light tone wrong side*

Sears Big Bold Savings and Value Guide

Hundreds of exciting values for bed, kitchen and bath

Sears entire regular stock of colorful sheets, comforters and bedspreads is now on sale. Big savings on selected bath towels. Special purchases too—all waiting for you at Sears.

A **Special purchase* muslin sheet set** includes 1 flat sheet, 1 fitted sheet and a standard size pillow case. Choose from solid colors, piped in coordinating trim. **$6.99** twin size set

B **Special purchase* comforters**—any size, twin through king. **$19.99** any size

C **Save 30% on Sears bath towel with Jacquard border.** A beautiful way to dress up your bath—and save. Reg. $3.99 **$2.79** bath size

Inheritance dining room/kitchen coordinates. (Not shown.) They mix 'n match to brighten any occasion. All are machine washable. Tablecloths, reg. $12.99-20.99, **$10.99** any size. Reversible placemats, reg. $2.99, **$2.49 ea.** Ribbed kitchen towels, reg. $1.99, **$1.59 ea.**

*A special purchase, though not reduced, is an exceptional value. While quantities last.

Minimum savings nationally. Prices and dates apply only to the continental United States. Available in most Sears retail stores.

You can count on Sears

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Save on all Sears sheets and comforters

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B **Hampton Flowers comforter.** The perfect companion for your coordinating sheets. Reg. $24.99 $19.99 twin

C **Save 40% on Harmony twin size sheets** in versatile, solid color percale. $3.89 twin

D **Harmony comforter** coordinates beautifully with your new sheets. Reg. $29.99 $24.99 twin

Save on Sears pillows

E **Loftgard® polyester fill.** Reg. $6.99 $4.99 std. size

F **Dacron II® polyester fill.** Reg. $8.99 $6.99 std. size

G **Feather fill.** Reg. $14.99 $11.99 std. size

Colormate percale sheets with hems double-piped in a smart, contrasting color. Reg. $7.99 **$4.99** twin

Colormate comforter reverses from a rich dark to a solid light. Reg. $39.99 **$29.99** twin

Danielle percale sheets add a touch of French floral beauty to your bedroom. Reg. $8.99 **$5.99** twin

Colormate plaid sheet. Smooth percale print sheets that mix and match with Colormate solids. Reg. $8.99 **$5.99** twin

Save on these mattress protectors

L Harmony fitted mattress pad. Reg. $11.99 **$8.99** twin

M Harmony Snug-Fit mattress pad. Reg. $14.99 **$10.99** twin

All other sizes of these sheets and comforters are on sale, too.

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Exclusively at Sears!

Diane Von Furstenberg fashions for bedroom and bath–now at 20-30% savings

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B Mille Fleurs comforter – Reversible, with delicate white lace trim. Reg. $60 **$48** full

C Lily sheet – In soft shades of peach and green. Reg. $13 **$10** full

D Coordinating Lily comforter – Bold abstract design reverses to a solid white. Reg. $60 **$48** full

All sheets are PERMA-PREST® cotton and polyester blend percale.

All Diane Von Furstenberg quilted bedspreads on sale. Plus, save on all other sizes of these sheets, comforters and towels.

Sears big bold WHITE SALE

June 20-July 17, 1982

E **Diane Von Furstenberg towel**— Our largest and thickest all-terry bath towel. Reg. $10 **$7** bath size

F **Velvety plush rug**—Thick and luxuriously soft 100% DuPont nylon pile. Reg. $13 **$10** 21 x 36 inches

G **Double draped shower curtain** with distinctive pique weave. Reg. $30 **$24**

H **Save on Diane's coordinating bath accessories**—Including ceramic tumbler, soap dish, toothbrush holder and lotion bottle.

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Our home is our world, our center. Like ashion we wear, designs we choose should e flattering and enhance our personality. /e should blend with our surroundings in erfect harmony."

Diane Von Furstenberg®

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Bathroom brighteners at sensational saving

Sears big bold WHITE SALE
June 20-July 17, 1982

Save on Colorcore bath coordinates.

A **Save 33% on velour bath towel**—Velvety soft, in a rainbow of glorious solid colors. $3.99 bath size

B **Bath rug**—Lustrous, Saxony pile of DuPont nylon yarns. Latex backing helps prevent slipping. Reg. $9.99 $7.99 22 x 35 inches

Coordinating 5 x 6-foot bathroom carpeting. Reg. $44.99 $35.99

C **Fabric shower curtain**—Delicate shee weave with valance and matching liner. Machine washable. Reg. $14.99 $11.99

D **Wicker-look hamper**—Compliments any bath decor. Ventilated bottom. Reg. $27.99 $21.99

E **Spring scale**—Attractive wicker-look sc with color coordinated vinyl covering, steel case. Reg. $14.99 $11.99

Matchmate II bath coordinates also on sale!

F **Save 30% on piped terry bath towel**—Accented by white woven decorative border. **$3.49** bath size

G **Plush bath rug**—In coordinating solid colors. 100% DuPont nylon pile—skid resistant back. Reg. $5.99 **$4.49** 22 x 35 inches

Coordinating 5 x 6-foot bathroom carpeting. Reg. $29.99 **$23.99**

H **Vinyl shower curtain**—Doubly thick for extra durability. Reg. $6.99 **$4.99**

I **Willow hamper**—Natural color, hand-woven hamper is treated with a special finishing process that adds strength and durability. Reg. $19.99 **$14.99**

J **Digital scale**—Battery operated, wicker-look top with L.E.D. digital readout. Reg. $44.99 **$34.99**

All other sizes of these towels are on sale.

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Choose from over 800 bedspreads!

Save 15-30% on all Sears ready-made bedspreads

Every bedspread—From classic to romantic, including children's and adults', is now sale priced. Save on woven, quilted, bouffant styles—even Sears famous Toughcord.®

Also save 15-20% on coordinating window coverings.

Sears **big bold** WHITE SALE

June 20-July 17, 1982

An outstanding special purchase!†

Sears 24^{88} bedspread. With these same quality features found in our 44^{99} bedspread.

A Same fabric, same backing, same quality fill. While quantities last, choose from 2 beautiful patterns, 2 versatile solids. Bedspreads are PERMA-PREST® machine washable blends of polyester and rayon. Backed by durable nylon tricot—plumped with polyester fiberfill. Twin or full, **$24.88.** Queen or king, **$39.88.** Standard size shams, **$12.88.** Matching draperies, 48 by 63-inch pair, **$17.88**; 48 by 84-inch pair, **$19.88.**

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You can count on Sears

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Save $40-$160* on mattress close-out at Sears

Now's your chance to save on these fabulous mattresses during Sears close-out. You'll get firm, comfortable support in all sizes—innerspring or Serofoam polyurethane.

Sears Comfort Dreams Mattress—Twin (ea. pc.), reg. $169.99, **Sale $99.88;** Full (ea. pc.), reg. $219.99, **Sale $149.88;** Queen (set), reg. $529.99, **Sale $399.88;** King (set), reg. $659.99, **Sale $499.88.**

B **Sears Deluxe Mattress**—Twin (ea. pc.), $119.99, **Sale $79.88;** Full (ea. pc.), reg. $159.99, **Sale $119.88;** Queen (set), reg. $379.99, **Sale $299.88;** King (set), reg. $479.99, **Sale $399.88.**

C **Save $12* on Caria genuine brass headboards—now $67.88** twin. All other sizes on sale.

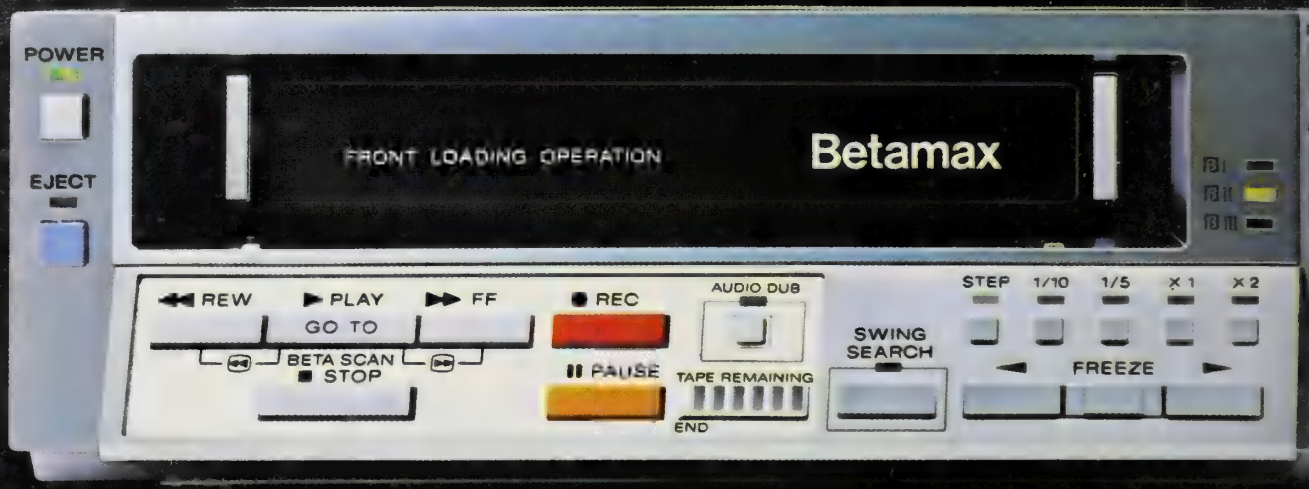
Save $5* on Sears Carpetroller bedframe. Now $29.88. Twin/full only.

Save $50* on Sears Brawny Bunk Bed

Now $199.88 twin

D This rugged, solid pine bunk bed comes complete with a convenient built-in ladder and postureboard foundation. Also can convert into twin beds. (Mattress and bedspread extra.)

**Minimum savings nationally. Prices and dates apply only to the continental United States. Available in most Sears retail stores.*



ONCE AGAIN, SON
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Introducing the Sony Betamax SL-2500. The most advanced home videocassette recorder ever conceived.

Its professional features are so sophisticated they are utterly simple to use. As a totality, those features combine to form a machine whose capabilities narrow the gap between the professional and the amateur video enthusiast.

Notice the height. It's equal to just three videocassettes. Or, 3⅛" high. Notice the width. It's equal to the width of standard audio components as Sony moves to integrate video and audio into one entertainment system.

Notice the advanced front loading and location of the feather-touch controls. All human engineered for ease of operation.

NOW RECORDING, EDITING, AND REVIEWING ARE AS EASY AS THUMBING THROUGH A BOOK.

To Sony, the ultimate goal of sophisticated technology is simplicity, not complexity.

Nowhere is this more evident than in the SL-2500.

We saw the process of recording, editing, and reviewing a video home movie as similar to that of thumbing through, reading, and referring to a book.

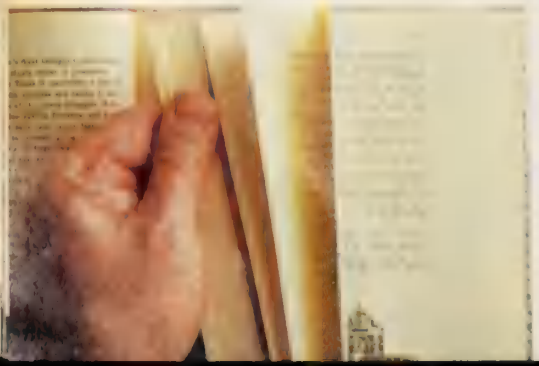
If you think of a Table of Contents, you'll understand the new Electronic Tab Marker index. You'll be able to program up to nine points, or chapters, on your recording. And be able to go directly to each of them at the push of a button.

If you think of skimming through a book, you'll understa BetaScan. You're able to quickl review material to find the spot you're looking for.

If you think of flipping back and forth between two pages t locate the place you need to fin you've got the idea behind Swi Search. In five different special effects speeds you can review with crystal clarity the frames where the action has occurred. you get the exact frame where edit should occur.

Sometimes, when you read you wish to study a page for a long time. The same holds true when reviewing a scene. For t you need Freeze-Frame, and t SL-2500's double Azimuth Reco ing Heads provide a crystal-cle one.

With the optional BetaStack tape changer, you can record o play back up to four separate p



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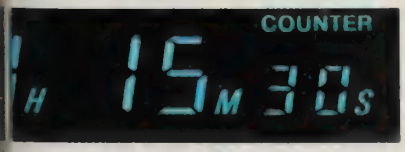
NARROWS THE GAP AND THE PROFESSIONAL.

ams, each on its own cassette. ıch show becomes a single vol- ıe, as you match the cassette ıgth to the program length. aking it easy to refer to and ıjoy. Should you wish to compile thologies, the BetaStack gives u a maximum of 20 hours of con- cutive recording or playback.

LINEAR TIME COUNTER. YOU ıOW EXACTLY WHERE YOU ARE IN HOURS, MINUTES, AND SECONDS.



Just as pages in a book are arked by a number, the Linear me Counter electronically eats each second you record or ay back as if it were a page. So stead of relying on a mechanical unter, you easily know where each scene and each program falls precisely on the tape.

And, as you can judge how much of a book is left to be read by the thickness of the remaining pages, the LED Tape-Remaining Indicator tells you how much tape is left. And even blinks as you approach the end of the tape.

MICRO TIME PHASE CIRCUITRY FOR CLEAR, NOISELESS EDITS.

An editor is only as good as his tools. And in the past, those tools could not deliver edits that didn't call attention to themselves.

The Micro Time Phase Circuitry of the SL-2500 has made that problem ancient history.

When you push the pause or stop button, the tape rewinds 15 frames. When the pause button is pushed again, the tape advances 12 frames, which gives the motor a chance to get into the Record mode. The edit is clean, without a "glitch."

WIRELESS REMOTE COMMANDER. PROFESSIONAL CONTROL FROM YOUR EASY CHAIR.

Channel selection, BetaScan, Play, Record, and all the Swing Search functions can all be accomplished with our wireless remote. Sophisticated technology again bringing simplicity and ease to operation.

This is the Sony SL-2500.

Suddenly, there are no amateurs.

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See your Sony dealer for a full detail instruction. Or write: Sony Video Information Center, CN 02951, Trenton, NJ 08650. Models shown: SL-2500 and RMT-312.

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March of Dimes

THIS SPACE CONTRIBUTED AS A PUBLIC SERVICE BY THE PUBLISHER

Architecture buffs *can enjoy drawings, photographs, other exhibits at specialized museum in Helsinki*

Where Finns honor their architects

In Finland, architects and designers can achieve as much national prominence as rock stars or sports heroes in the U.S., so it comes as no surprise to find a museum in the heart of Helsinki dedicated strictly to architecture.

The Museum of Finnish Architecture (*Suomen Rakennustaiteen Museo*) is 3½ blocks south of the main shopping street Esplanadi in a large brick and wood house at Kasarmitkatu 24. Look for the side entry.

During summer, the museum is open daily from 10 to 4, with rotating exhibits of drawings, photographs, models, and furniture—both historic and contemporary. There's also a collection of 60,000 photographs and drawings and 10,000 slides related to architecture, but access to these archives requires prearrangement. A library of 13,000 books (most in Finnish) on architecture, landscape design, industrial design, and related subjects is available for public use. Foreign visitors will need a Finnish citizen to cosign for borrowed materials.

A small bookstore sells architecture-related books, catalogs of the museum's shows, and a few posters. ▫

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has just published a

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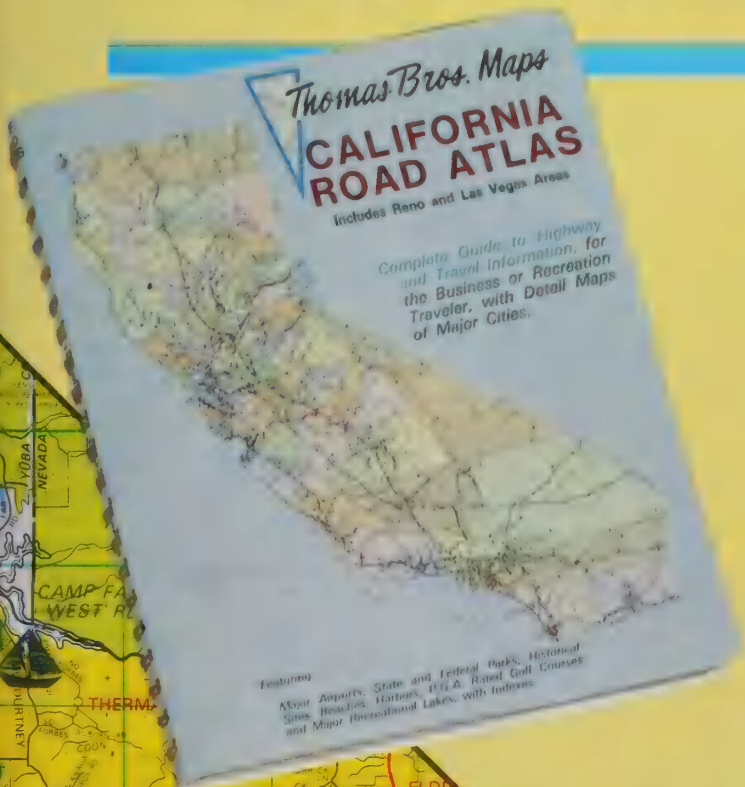
DETAIL MAPS* OF MAJOR CITIES



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**87 detail maps of cities in California, plus Las Vegas and Reno, Nevada.*

Thomas Bros. Maps
SINCE 1915

Now that your
dollar buys so much more:

Don't just say Acapulco.

Say Princess. For value.

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A PRINCESS HOTEL

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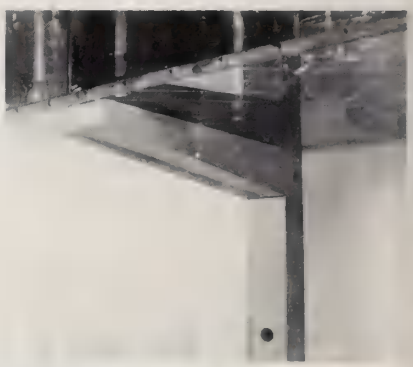
For reservations or information, see your travel agent or call **800-223-1818;** New York State 800-442-8418; New York City 212-582-8100.

GLENN CHRISTIANSEN

Wall-hugging storage *uses a system of maple 2 by 2's to support shelves of ¼-inch-thick, wire-reinforced glass*

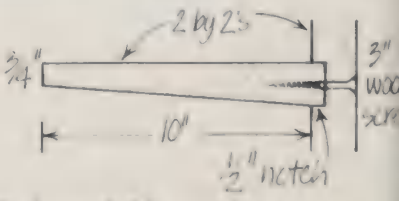


Maple and glass storage wall

Every wall went to work in the remodel of this tiny West Los Angeles kitchen. When architect Frank Israel began, the wall pictured above was bare, and a doorway at one end would limit any storage placed on it to a 12-inch depth.

Israel and Santa Monica designer Douglas Quick put a 12-inch-deep cabinet below a maple butcher-block countertop. They continued the use of maple in an open shelf system.

After constructing supports for the 10-inch-deep shelves, Quick used a dab of silicone caulk on each tapered arm to hold the glass in place. □



Woodscrew *holds tapered support in notch cut in wall-mounted 2 by 2*

IF WHAT YOU'RE PAINTING ISN'T ORDINARY, WHY SHOULD YOUR PAINT BE?

Your father gave you that wagon for your fifth birthday. Now it's your turn to pass it on.

Any spray paint could make it red again. If that's all you wanted.

But Rust-Oleum, with an average of 50% more protective ingredients than its nearest competitor, can do more.

Its protective formula not only prevents rust, it also gives metal better protection from chipping, peeling and fading than other spray paints.

RUST-OLEUM CORPORATION

Something you might want to think about next time you're painting something you care very much about.

ANY METAL WORTH PAINTING, IS WORTH PROTECTING.

©1982 Rust-Oleum Corporation U.S.A.

Going up one floor gave a whole new look, new views, and a big, much-used space

GLENN CHRISTIANSE

Before. *Modest cottage didn't take advantage of view. Owners wanted a new master bedroom, more living space, modern form*

After. *Cedar siding ties second-story addition to old house. Pipe-and-wire rails don't block view*

THIS IS NOT A DOG.

He's a puppy. And for his whole first year, a puppy needs a lot more nutrition than an adult dog. Purina® Puppy Chow® brand puppy food has that extra nutrition. So don't treat your puppy like a dog. Give him the extra nutrition of Purina Puppy Chow. Regular or Beef flavor.

Don't treat your puppy like a dog.

© R.P.Co., 1982

Angled balcony *opens new second-story kitchen and family dining area to living room below, still essentially intact. Windows look out to wide-angle views of Lake Washington*

Open ceiling *expands space. Stairs lead to dining room, second floor*

Going up another floor not only doubled the living space of Pat Wakazuru's small Seattle cottage, it added sweeping views over Lake Washington. And to take advantage of them, architects Arai/Jackson put the most-used rooms—kitchen, informal dining area, and family room—in one bright space on the second floor.

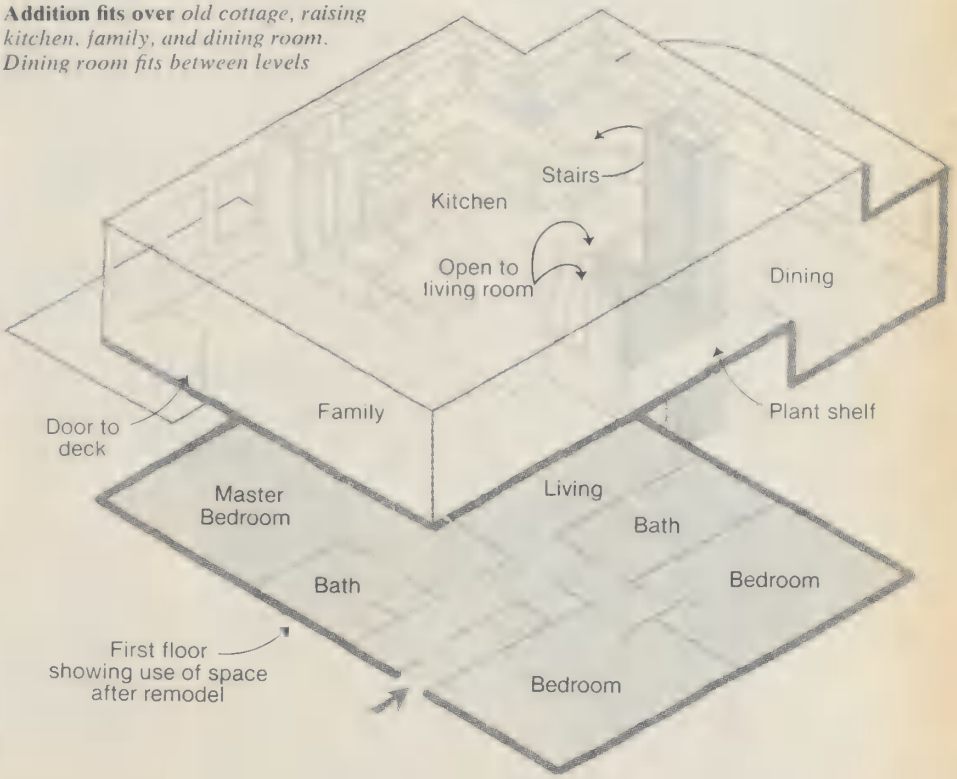
Storage isn't sacrificed to the view. Little-used items are kept in high cabinets over the windows. To keep the center of the room low and open, the oven, microwave, and refrigerator are grouped on one small section of outer wall.

A large work and serving island encloses the kitchen area and provides much of the storage space; it contains a built-in cooktop and has a breakfast table connected to one end. Near the table, a balcony opens to the living room below, keeping the cook in touch with children and guests.

The only major addition outside the cottage's foundation line was the new dining room; it sits at the landing level between the two floors and is used for more formal entertaining.

Downstairs, the original dining room and kitchen were turned into a master bedroom and bathroom suite. The other bathroom was expanded—at the loss of some hall closet space. □

Addition fits over *old cottage, raising kitchen, family, and dining room. Dining room fits between levels*



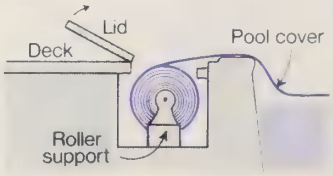
The Changing Western Home®

Pool cover rolls up under the deck

MICHAEL THOMPSON

The sloping lot under the pool at Dorothy Rachor's Myrtle Creek, Oregon, house required a raised deck at the pool's edge, but it also allowed a pool cover roller to be recessed under the deck surface.

As the spool for the cover, Mrs. Rachor used 4-inch-diameter high-torque aluminum irrigation pipe, picked for its strength and rigidity. It turns on internal roller bearings set on support blocks. For effortless winding, an electric motor will be installed; meanwhile, a hand crank turns the roller. To cover the pool, two plywood trap doors hinge open, and the material unrolls as it's walked to the opposite end.



CHAD SLATTERY

Doing your business under the counter

Hidden under the cutting board in Elizabeth and Fred Sattler's Big Bear, California, kitchen is a desk. Resting on narrow support strips at each side of the 36-inch-high counter, the hardwood cutting board slides out and stores under the 28-inch-high desktop. The desk surface is wired for electricity and telephone. A knee space cut into the island accommodates a chair.

PETER CHRISTIANSEN

BILL ROSS

Face-lifting concrete stairs . . . without a jackhammer

To camouflage old concrete steps, two Southern Californians anchored 2 by 12's to the concrete. Both used 5/8-inch masonry bits to drill holes in the concrete to receive metal expansion shields for 3/8-inch-diameter, 3-inch-long lag screws.

At left above, Tom Vilich of Santa Barbara countersunk lag screws to fasten his planks to the stair treads. He painted the concrete risers black and trained ivy to grow across.

Designer Dennis Wallace of Venice secured his planks to the stair risers, extending the boards 3 1/2 inches above the treads. He filled in the trough with an inch of damp sand, then laid in 2 1/2-inch-thick bricks cut to the needed length with a masonry blade in a circular saw.

DAVID STUBBS

All men are created equal. All flags aren't

When in the course of human events it becomes necessary to acquire a flag to fly on the Fourth of July, Labor Day, Columbus Day, or every day, you'll be faced with more choices than you might have imagined.

Kits—including flag, pole, and mounting bracket—usually appear in stores around this time of year, but you may find you can get a better flag and accessories for about the same price by buying them from a flag manufacturer or at a manufacturer's outlet, located in most major cities (look in the yellow pages under Flags and Banners).

Ask the store people tough questions. Better flags are double-needle-stitched, not chain-stitched; star fields are embroidered, not printed; stripes are sewn, not printed. Material should be vat-dyed and colorfast, with grommets well installed on a canvas-reinforced hoist edge.

Sizes range from 4 by 6 inches (about $1) up to 20 by 30 feet (about $500 in cotton). Depending on the material, a 3- by 5-foot flag will cost between $15 and $40. The most expensive flags are nylon, acrylic, or nylon-wool blends; cotton flags are cheaper (and less durable).

Brochures given with flags outline the correct way to display them.

Some stores, such as the Flag Store in San Francisco (shown here), offer historic flags as well as state, foreign, and custom-made flags.

They don't call 'em the Rockies for nothing

Art and Jane Howells picked their homesite in the geological wonderland called Garden of the Gods outside Colorado Springs, Colorado, specifically for the wonderful rocks on the site. They managed to thread a deck out through the boulders to hold their conventional lawn furniture. But hanging a hammock in this forest of rocks required a creative solution: rock-climbing hardware. They pounded pitons into holes drilled in the rock; karabiners link piton and hammock ring.

Architect was Mike Lane of Design Group Associates, Colorado Springs.

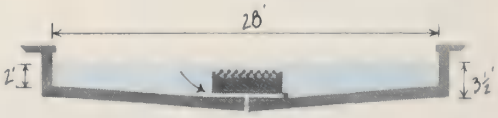
NORMAN A. PLATE

JERRY FREDRICK

Gentle trickles *of water splashing into koi pool make cool, soothing backdrop in hot Redlands, California, garden*

Trickle pond is home for 15 koi

Cross-section *shows how 2-inch PVC pipes with capped ends protrude into each side of pool at bottom of center divider. Removing one cap (arrow) drains one side; sloping floor aids drainage*

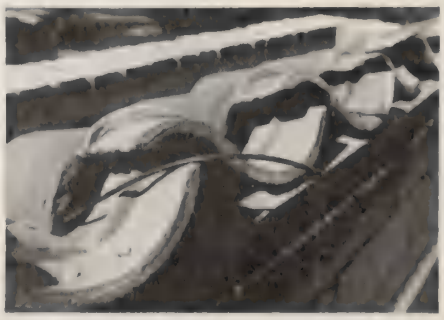


The cooling sound of trickling water is what Bill Locklin wanted in the garden of his Redlands, California, house. But he also wanted an easy-care home for more than a dozen koi.

His twofold solution was a long, narrow pool with a raised center platform and two drain systems that allow each side to drain separately for cleaning. Along the top of the pool's elevated back wall, and concealed beneath terra cotta tiles, drip-irrigation tubes channel gentle streams of water into the pool (water also flows through openings in each side just below the water line).

To clean the pool, which he does once a year, Mr. Locklin guides the koi to one side with a long-handled net, then empties and cleans the other side.

Water is aerated by continuous circulation; a pump and manually set valves control the flow. Concrete blocks frame the pool. □



Drip-irrigation *tubing mounted to back of wall channels water into pool*

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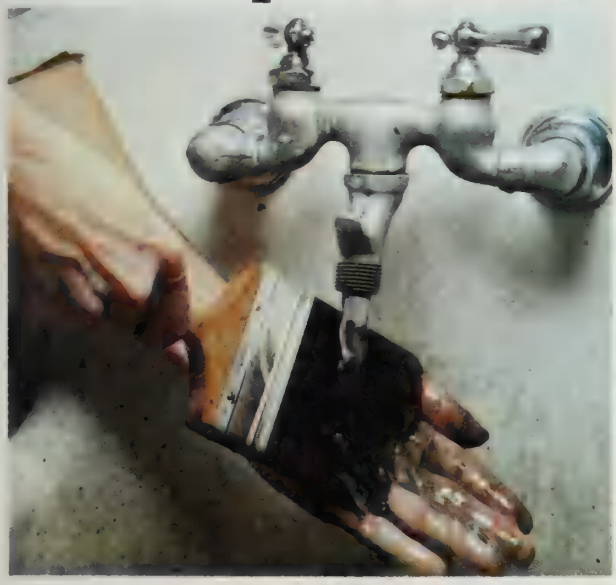

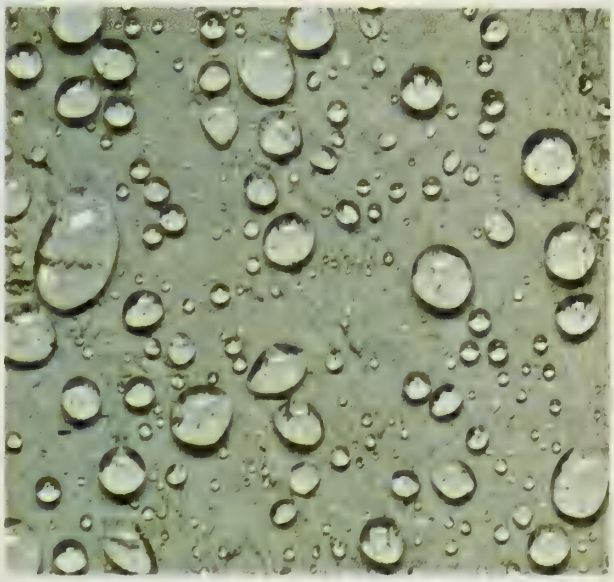

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Tiny porch becomes outdoor vestibule

The old front stoop *gave no protection from weather or street views*

small lath-walled portico turns the ont stoop of this Piedmont, California, ›use into a gracious outdoor vestibule. n hot days, owner Moira Nichols closes ıd locks the lattice gate and leaves her ont door open. The 4- by 6-foot por-·o acts as a breezeway to ventilate the ›use without opening it up to views om the street.

ın Francisco architect Phoebe Wall ve the porch a classical look in keep-g with the style of the house. Two 9-ot ready-made wood columns and 4 6's support the canopy. Fir 3 by 4's ame the lattice panels, which are at-ched to the columns with lag screws. □

Original pediment *with fan motif moved to front of projecting portico. Lattice gates fold inward against sides when not in use*

DAVID STUBBS

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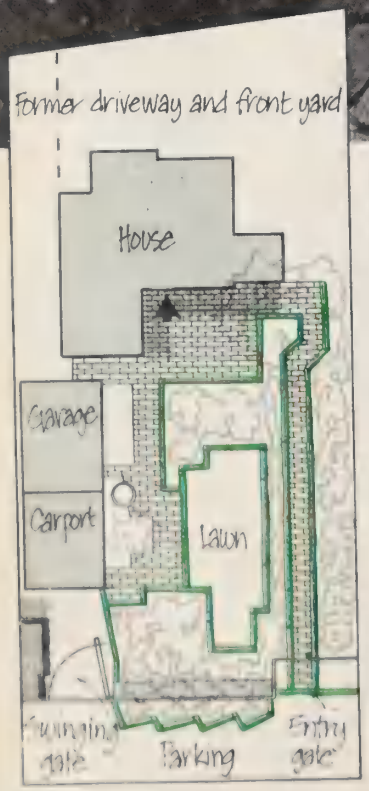
DARROW M. W

Patterned brick path *has border of railroad ties. Low-voltage lights and boxwood hedge lead guests to front patio. Former front yard (at top of drawing) is now used to grow vegetables and herbs. The dark color line shows border of railroad ties*



Garden flip-flop gives them a more formal entry, privacy, shade, work space

SUNS

PETER O. WHITELEY

Propagating area *is shaded by three varieties of grapes: 'Thompson Seedless', 'Peerless', and 'Black Monukka'*

Wisteria crowns *entry trellis and lattice-topped fence. Permanent planting includes azaleas and hydrangeas*

Private entry patio *holds container plants and flats for cuttings. Lattice above the detailed crosspieces adds shade*

gardening craftsman combined his love plants and woodworking with an au-cious landscape plan in the remodeling his yard. Ramsay and Bob Waterman's all house in Atherton, California, sits a long, skinny lot that runs between o streets. They wanted a more formal try to their house, so they decided to p the entire yard plan. Now, guests ap-oach the house through what used to the back yard.

the center of the new front yard is a hondra lawn. Bordering it are half-ken railroad ties that act as a low re-ning wall for the planting bed and box-od hedge. Throughout the yard the perform well: they edge the brick hway and patio, they form a staggered rder for the parking area outside the front fence, and they contain the gravel of a little-used driveway.

"The garden is weighted toward annuals and bouquets," explains Bob, who follows a "stuff and grow" policy by filling the main beds with flowers for cutting. For his summer planting, he favors ageratum, cosmos, dahlias, marigolds, and zinnias. For winter and spring color, he chooses bulbs, calendulas, primroses, snapdragons, stock. Between seasons, he revitalizes the beds with compost.

Shady areas under the overhead lattice or beneath the tall walnut tree near the front patio contain azaleas, hydrangeas, and Japanese maples. To punctuate the area with color, the Watermans use containers of shade-tolerant annuals and borders of impatiens. □

Curving concrete runway *is for wheel mounted to cross-braced fence*

Sunset's Kitchen Cabinet®

If July plans include a picnic on the Fourth or a patio dinner for family or guests, these recipes may help you get organized.

The baked multi-bean dish and low-calorie, yogurt-dressed slaw are both good choices for a buffet picnic bef the fireworks. If you want to sta more elegant meal, choose the gri salmon with melting mustard butt

Other choices for July include s chicken and cheese tostadas and a

A scoop of piquantly seasoned butter melts into a sauce for grilled salmon

Salmon Grill Diable

It takes only 10 minutes to grill these salmon steaks over hot coals.

- ⅓ cup butter or margarine, at room temperature
- 2 tablespoons lemon juice
- 2 teaspoons Dijon mustard
- ⅛ teaspoon cayenne
- 1 tablespoon finely chopped parsley
- 6 large salmon steaks, 1 inch thick
- Olive oil
- Salt and pepper

Beat the butter until creamy; gradually beat in the lemon juice until mixture is fluffy. Beat in the mustard, cayenne, and parsley. Cover and chill if made ahead; use at room temperature.

Arrange a single solid layer of coa fire bed of barbecue. Mound c and ignite. When they're covered gray ash, about 30 minutes, sp coals to form a single layer.

With a basting brush, lightly salmon steaks with olive oil; spri with salt and pepper. Set salmo grill, 6 inches above hot coals. C turning once with a wide spatula, u fish flakes in center when proc with a fork, about 10 minutes.

Place steaks on a hot serving pla top each with an equal portion of ter mixture. Serves 6.—*M. E., mel, Calif.*

Serve this old-fashioned bean casserole with barbecued sausages or hamburgers

Sweet and Sour Baked Beans

Four different kinds of beans combine to make this colorful casserole.

- ½ pound (about 10 slices) bacon
- 4 large onions, sliced
- 1 cup firmly packed brown sugar
- 1½ teaspoons dry mustard
- ½ cup cider vinegar
- 2 cans (1 lb. *each*) dry butter beans (California limas)
- 1 can (15½ oz.) green lima beans
- 1 can (15½ oz.) red kidney beans
- 1 large can (28 oz.) New England-style baked beans

In a 12- to 14-inch frying pan on medium heat, cook the bacon until crisp; drain on paper towels, then crumble. Discard all but ¼ cup bacon drippings. Add onion slices to drippi separating onions into rings. Stir in sugar, mustard, and vinegar and c gently over medium heat for 10 utes or until juices are reduced about ⅓.

Drain the butter beans, lima be and kidney beans. Combine drained beans with the *undra* baked beans in a 2½- to 3-quart serole. Add the bacon and the on vinegar mixture; stir gently to ble

Bake uncovered in a 350° oven hot and bubbly, about 1¼ h Makes 10 to 12 servings.—*K. Puyallup, Wash.*

You mix crisp apple bits with cabbage, carrots, and green onion in this slaw

Confetti Coleslaw

A sweet-tart yogurt mixture, seasoned with tarragon, dresses this coleslaw.

- 1 small head (about 1¼ lbs.) red or green cabbage
- 2 large carrots, peeled
- 2 medium-size tart apples
- 4 green onions, thinly sliced (include tops)
- 1 cup unflavored yogurt
- ¼ cup mayonnaise
- 3 tablespoons white wine vinegar
- 1 tablespoon sugar
- ½ teaspoon tarragon leaves
- Salt and pepper

If you have a food processor, use a slicing blade to shred the cabbage, the shredding blade to shred the carrots, and the knife to coarsely chop apples. Or use a knife to shred cabbage and chop the apples an hand grater to shred the carrots.

Combine cabbage, carrots, apples, onion in a large serving bowl; c and chill as long as 2 hours.

For dressing, stir together the yog mayonnaise, vinegar, sugar, and ragon. If made ahead, cover and c as long as overnight.

To serve, pour dressing over cabb mixture; mix to blend thoroug Add salt and pepper to taste; b again. Makes about 6 serving *B. K., Fort Morgan, Colo.*

ert featuring one of summer's favor-
e fruits—blueberries.

end your favorite warm-weather rec-
es to *Sunset Magazine*, Menlo Park,
alif. 94025. We pay $25 for each
ublished recipe.

Ideas for a fireworks buffet, barbecued salmon, leftover chicken

Cheddar Chicken Tostadas

Use cooked chicken or leftover turkey
o make these saucy tostadas.

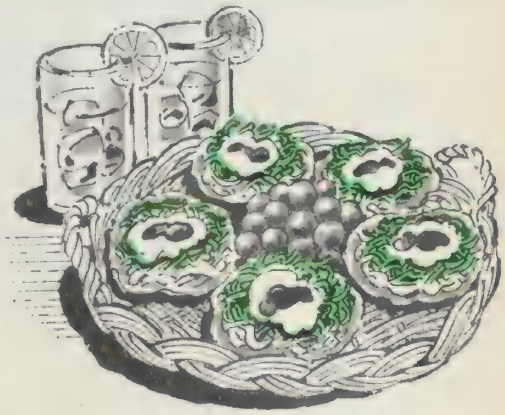
- Salad oil
- 6 corn tortillas (7-inch diameter)
- 2 tablespoons butter or margarine
- 1 large onion, chopped
- 1 clove garlic, minced or pressed
- 1 can (7 oz.) diced green chilies
- 3 cups finely shredded cooked poultry
- 1 can (10½ oz.) condensed beef consommé
- 2 cups (8 oz.) shredded Cheddar cheese
- Garnishes (suggestions follow)

Heat ¼ inch of salad oil in a 10- to
2-inch frying pan on medium-high heat. Cook one tortilla at a time, turning once, until crisp; drain on paper towels.

Drain oil from pan; add butter and melt over medium-high heat. Add the onion and garlic; cook, stirring, until onion is limp. Add chilies, chicken, and consommé; cook, stirring, until juices evaporate. Stir in the cheese.

To assemble, spread ½ cup of the chicken mixture on each crisp tortilla. Top with desired garnishes. Makes 8 tostadas.—*M. C., Los Angeles.*

Garnishes: 2 cups shredded lettuce, 1 cup sour cream, and bottled taco sauce to taste.



Mound tortillas with chicken filling, sour cream, lettuce, and taco sauce

Zucchini Cheese Custard

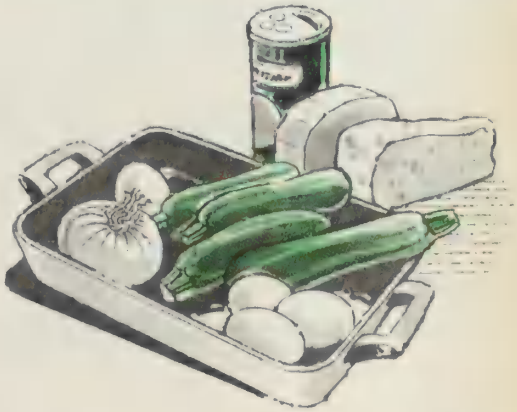
erve this dish as a meatless entrée or
ith barbecued meats.

- 2 tablespoons butter or margarine
- 4 eggs
- 2 cups (8 oz.) shredded jack cheese with jalapeño peppers
- 2 cups (8 oz.) shredded Cheddar cheese
- ½ cup seasoned dry bread crumbs (or crushed croutons)
- 2 cloves garlic, minced or pressed
- 2 tablespoons grated onion
- 4 cups (about 4 medium-size) coarsely shredded zucchini
- ⅓ cup grated Parmesan cheese

oat the bottom and sides of a shallow
-quart baking dish with the butter and set aside.

Beat the eggs in a large mixing bowl. Stir in the jack cheese with peppers, the Cheddar cheese, bread crumbs, garlic, and onion until well blended. With a rubber scraper, fold in the zucchini. Scoop the squash mixture into the buttered baking dish. Smooth top, then sprinkle evenly with the Parmesan cheese.

Bake, uncovered, in a 350° oven until top is well browned and center is firm when lightly touched, about 45 minutes. Let cool 10 minutes before serving. Serves 8 to 10.—*A. H., Santa Rosa, Calif.*



Strands of garden zucchini mingle with chili and Cheddar cheese in a custard

Blueberry-Pear Crisp

ıicy pear chunks extend sometimes
ostly blueberries in this dessert.

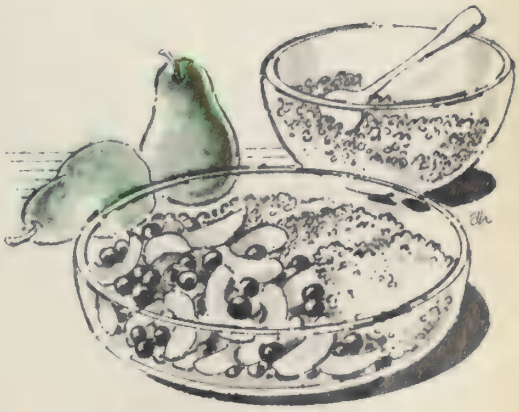
- 2 cups fresh or frozen (thawed) blueberries
- 4 medium-size ripe pears, peeled, cored, and sliced
- ¼ cup granulated sugar
- 2 tablespoons *each* lemon juice and water
- ½ cup firmly packed brown sugar
- 1 cup rolled oats
- ½ cup chopped walnuts
- ⅓ cup all-purpose flour
- ⅓ cup cold butter or margarine
- Ice cream or whipped cream

ombine the blueberries, pears, gran-
ated sugar, lemon juice, and water in a shallow 1½-quart baking dish; stir well to blend.

For the streusel topping, combine the brown sugar, oats, walnuts, and flour in a small bowl. Add the butter, cut into pieces, and rub mixture between your fingers until coarse crumbs form; distribute evenly over fruit.

Bake, uncovered, in a 350° oven until the topping is richly browned and pears are tender when pierced, about 45 minutes.

Serve hot or cooled in bowls; top individual servings with ice cream or whipped cream. Makes 6 to 8 servings.—*S. C., Portland.*



Sprinkle lumps of nutty streusel atop pears and blueberries before baking

DARROW M. WATT

"Not more zucchini!" *Even a few plants bring you a challenging harvest, requiring some ingenuity in the kitchen to make use of it all*

The criterion for a good zucchini recip among many home gardeners we know that it uses plenty of this prolific squas

But just as the productive nature of t zucchini shouldn't be underestimated the gardener, its culinary potenti shouldn't be neglected by the cook. Mi and delicate, zucchini accepts a wi range of seasonings—savory to spicy sweet. These six recipes show off the ve satility. Before you start, be sure to tri off zucchini ends.

Zucchini Custard Torte

In a bowl, combine ¾ cup shredd **Swiss cheese,** 1 cup *each* **whole-whe flour** and **quick-cooking rolled oats,** a ¼ cup grated **Parmesan cheese.** With pastry blender or your fingers, mix in cup (¼ lb.) **butter** or margarine un even crumbs form; set aside 1 cup. Pre remaining mixture over the bottom a 2 inches up the sides of a greased 9-in cheesecake pan with removable sides.

Slice 5 medium-size (about 2¼ lbs.) **zu chini** about ⅛ inch thick. Also chop medium-size **onion** and 1 small **red** green **bell pepper** (seeds removed). In 10- to 12-inch frying pan over mediu high heat, melt 2 tablespoons **butter** margarine. Add zucchini, onion, pepp and 2 cloves **garlic,** minced or presse Cook, stirring, until zucchini is lim about 12 minutes. Set pan aside.

In a bowl, lightly beat together 4 **eg** 1 cup **sour cream,** and ½ cup *ea* shredded **Swiss** and grated **Parmes cheese.** Stir in zucchini and 2 tablespoo chopped **fresh basil leaves** (or 1 teaspo dried basil). Spoon mixture into pa sprinkle top with remaining crumbs.

Bake, uncovered, in a 375° oven un torte is puffy and no longer jiggles

What to do with all the zucchini? Here are more answers

Zucchini custard torte *has a seasoned cheese crust. Serve it warm or cooled as a brunch or supper entrée with a crisp salad*

Zucchini spaghetti? *Long, thin julienne strands of quickly sautéed zucchini substitute for pasta; sauce goes around*

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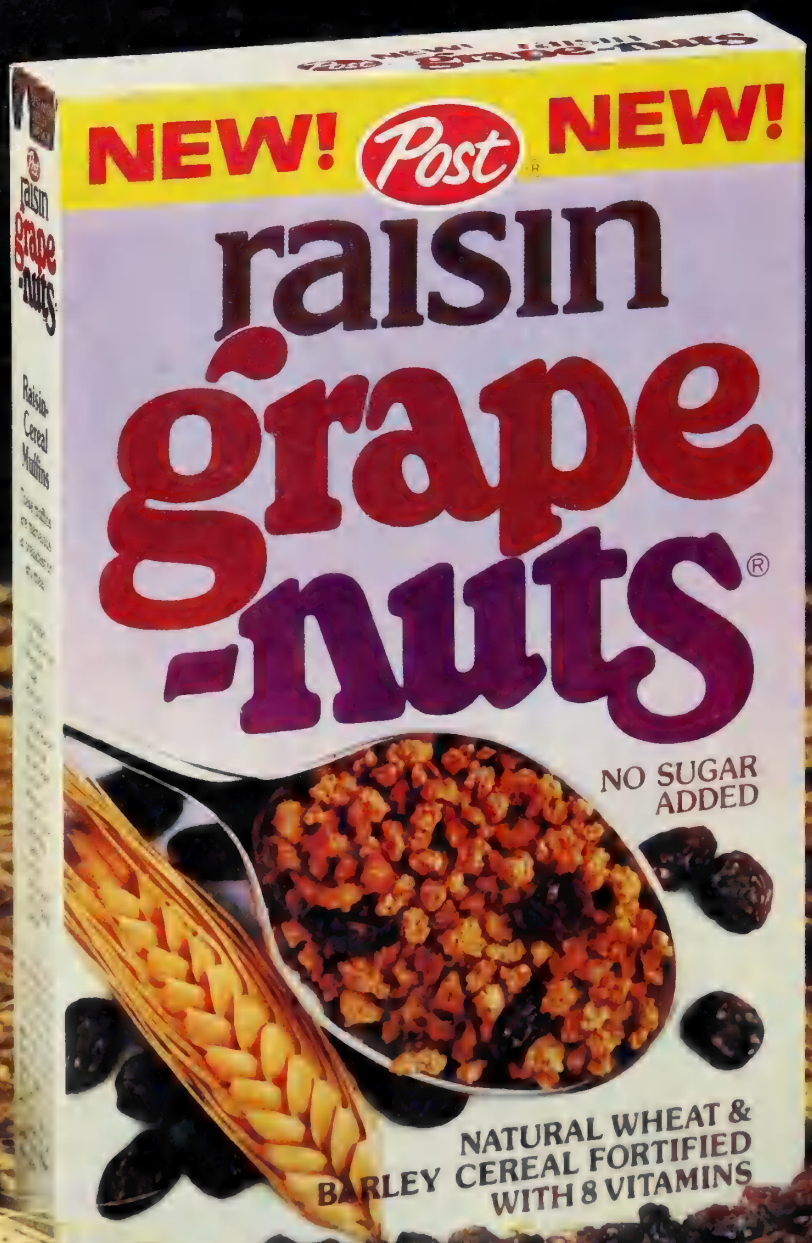
What's crunchychewynuttysweet?



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DARROW M. WATT

ney streusel-topped baked dessert combines chopped, peeled zucchini with a e chopped and peeled apple. The apple flavor dominates

:er when gently shaken, about 45 utes. Cool on a wire rack for 25 min-. Run a knife blade around edge, ı remove pan sides. Cut into wedges erve warm or cool. Serves 6.

ian Spiced Zucchini

4 to 5 medium-size **zucchini** (about s.) into ¼-inch-thick slices. In a 10-2-inch frying pan over medium heat, t 1 tablespoon **butter** or margarine. l zucchini and cook, stirring, until ler, about 12 minutes. Transfer zuc-ıi to a shallow 2-quart casserole. To pan, add 1 tablespoon **butter** or mar-ne, 1 large **onion** (sliced), and ¼ nd **mushrooms** (sliced). Cook, stir-, until onions are limp.

in 1 can (1 lb.) **stewed tomatoes,** ½ poon *each* **turmeric** and **mustard ls,** ¼ teaspoon **ground cinnamon,** ⅛ teaspoon *each* **ground cloves** and **enne.** Simmer, uncovered, over me-n heat until liquid evaporates and e is quite thick, about 10 minutes; often. Mix into zucchini; sprinkle ı ¾ cup grated **Parmesan cheese.**

e, uncovered, in a 350° oven until bly throughout, about 30 minutes. nkle with 2 tablespoons **fresh cori-er** (cilantro) leaves. Serves 4.

Zucchini Spaghetti with Sauce

With a knife or Oriental shredder, cut 6 to 8 medium-size (about 3 lbs.) **zucchini** into long, very thin slivers (to use shredder, draw zucchini full length across coarse shredding blade). Also mince or press 3 large cloves **garlic.**

Place 2 tablespoons **salad oil** in a 10- to 12-inch frying pan set over medium-high heat. Add half the zucchini and garlic and cook, lifting and gently stirring with 1 or 2 wide spatulas, just until tender-crisp, about 2 minutes. Mound zucchini in the center of a rimmed serving plate.

Add another 2 tablespoons **salad oil** to pan and cook remaining zucchini and garlic. Top zucchini with a pat of **butter** or margarine and sprinkle with **pepper.** Spoon 3 to 4 cups heated thick **spaghetti sauce** (homemade or purchased) around, but not over, the zucchini. Serve with grated **Parmesan cheese.** Serves 4.

Parmesan Zucchini Patties

Shred enough **zucchini** (about 4 medium-size or 2 lbs.) to make 4 cups. Heat 2 tablespoons **salad oil** in a 10- to 12-inch frying pan over medium heat. Add zucchini, 2 large **onions** (chopped), and 2 cloves **garlic** (minced or pressed). Cook, stirring, until vegetables are limp and moisture evaporates. Stir in 1 tablespoon chopped **fresh basil** (or ½ teaspoon dry basil), 2 tablespoons chopped **parsley,** and ⅛ teaspoon *each* **pepper** and **thyme leaves.** Remove pan from heat.

In a bowl, lightly beat together 3 **eggs.** Stir in 1 cup crushed **saltine crackers,** 1 cup (3 oz.) grated **Parmesan cheese,** and the zucchini mixture.

Heat ½ inch **salad oil** in a 10- to 12-inch frying pan over medium-high heat. With your hands, shape mixture into 3-inch patties (use ⅓ cup for each) and slide patties off a wide spatula into pan. Cook 3 or 4 patties at a time, turning carefully with 2 wide spatulas until well browned on both sides, about 4 minutes total. Lift patties from pan, let drain briefly, then place on a serving platter and keep warm until all are cooked. Sprinkle patties with 2 tablespoons grated **Parmesan cheese.** Makes 14 patties or 4 servings.

Zucchini-Apple Dessert Crisp

Peel and coarsely chop enough **zucchini** (about 6 medium-size or 3 lbs.) to make 6 cups. Also peel and coarsely chop enough **green apples** (about 2 large) to make 2½ cups. Combine zucchini and apples in a large bowl; stir in 6 tablespoons **lemon juice,** ¾ cup **granulated sugar,** 3 tablespoons **quick-cooking tapioca,** and ½ teaspoon **ground cinnamon.** Spoon into a shallow 2½-quart baking dish.

For the topping, combine in a bowl, 1⅓ cups **all-purpose flour,** ⅔ cup firmly packed **brown sugar,** ½ teaspoon grated **lemon peel,** and ¼ teaspoon **ground nutmeg.** Add ½ cup (¼ lb.) **butter** or margarine, cut into pieces. Rub mixture between your fingers until no large lumps remain. Squeeze together handfuls of the mixture to compact, then break into coarse lumps and scatter over zucchini.

Bake, uncovered, in a 375° oven until topping is browned, about 35 minutes. Serve warm with ice cream. Makes 6 servings.

Zucchini-Nut Tea Bread

In a large bowl, mix together 2 cups **sugar,** 1 cup **salad oil,** and 2 teaspoons **vanilla.** With a heavy spoon, beat in 3 **eggs** until well blended. Stir in 4 cups coarsely shredded **zucchini** (about 3 medium-size or 1½ lbs.). In another bowl, stir together 3 cups **all-purpose flour,** 2 teaspoons **ground cinnamon,** 1½ teaspoons **baking powder,** 1 teaspoon *each* **baking soda** and **ground cloves,** and 1 cup chopped **walnuts.** Add to zucchini mixture and stir just to blend.

Spoon batter into 2 greased 4½- by 8½-inch baking pans. Bake in a 350° oven until a wooden pick inserted in the center comes out clean, about 1 hour and 10 minutes. Turn out of pans onto wire rack; cool right side up. Serve, or wrap airtight and chill up to 3 weeks, or freeze. Makes 2 loaves. □

Trout
cloaked with dill
Sausages
laced with rosemary
Pork chops
topped with sage
Scallops
threaded with bay
Tenderloin
wrapped in fennel
Skirt steak
woven with thym

DARROW M. WATT

Fresh rosemary, *laid on coals just before grilling thick lamb chops, gives off a delicious aroma as it burns and adds subtle flavor to the meat*

Fresh herbs can do great things on the barbecue

sed with a free hand, fresh herbs bring ntalizing aroma and flavor to meats and h cooked on the barbecue.

ntil the last couple of years, only the ok with a garden had a ready supply—nich included leaves from the bay tree *mbellularia californica*) and green athery tops of fennel (sweet anise or occhio) when its fleshy bulb is past its ime.

it now Western markets display an er-widening selection of fresh cut rbs: rosemary, thyme, sage, tarragon, egano, dill (tender sprigs as well as ded plants), and chervil supplement gulars like parsley or mint. (If you n't find herbs, ask your produce man order them—they are available.)

introduce herb flavor, press, wrap, ave, or intertwine the herb with meat d fish as shown at left and on our ver. Heat releases the herbs' volatile alities, which are gently absorbed by ntact with juices or bastes of the cook- foods. Herbs that drop onto the coals ntentionally or accidentally—perfume cooking area as well as the food.

re we suggest and show some specific nbinations of flavors. There are no d-and-fast rules: foods and herbs that ell good together will also taste good ether. Herbs used in this way are not efully measured, and caution is not important. How you prepare the fire is.

The barbecue fire

Cook foods about 6 inches above a solid bed of completely ignited charcoal briquets. As the meat or fish cooks, scatter fresh herbs on the grill occasionally, or poke a few sprigs at a time through the grill. Keep a spray bottle of water handy to douse any flares.

Trout. For each trout, you'll need 6 to 8 sprigs of dill or fennel (use just the feathery green tops), cut just about the same length as the fish. Lay a short sprig of herb in the fish cavity. Surround trout with the herbs and tie with string as shown at left. Place on a greased grill and cook, turning once, until fish flakes easily when prodded with a fork, about 11 minutes.

Italian sausage. On a pair of metal skewers, thread 4 to 6 mild to hot Italian sausages, twining sprigs of rosemary, thyme, or oregano between the sausages as shown at left. Grill, turning often, until well browned, about 20 minutes.

Pork or lamb chops. Lay a large sage leaf or sprig of leaves, or a bay leaf on one side of each 1-inch-thick (bone-in or boned) pork or lamb chop. Place chops, herb side down, on a greased grill and top with another leaf or sprig of herb. Cook, turning once and brushing with olive oil or salad oil, until meat is well browned. For rare lamb, cook about 7 minutes on a side; for well-done pork, cook about 10 minutes on a side.

Scallops. Thread 6 to 8 scallops or 1½-inch chunks of rockfish on each skewer, alternating with bay leaves and thin slices of lemon. Place on a greased grill and cook, turning and basting with lemon oil (2 parts olive oil or salad oil with 1 part lemon juice), until scallops are opaque throughout and rockfish flakes easily when prodded with a fork, about 15 minutes.

Pork tenderloin. For each tenderloin, you'll need 6 to 8 sprigs of fennel (use just the feathery green tops), dill, rosemary, or thyme (or a combination of several). Surround each tenderloin with the herbs and tie in place as shown at left. Place on a greased grill and cook, turning occasionally, until meat is no longer pink in center (slash to test), about 35 to 40 minutes.

Skirt steaks. Trim off and discard excess fat from each steak. Weave each piece of meat on a long skewer, rippling very slightly (cut steak lengths if needed), tucking a sprig of thyme, rosemary, or tarragon under the skewer on both sides of the steak as shown. Place on a greased grill and cook to rare, about 7 to 10 minutes total; turn occasionally. □

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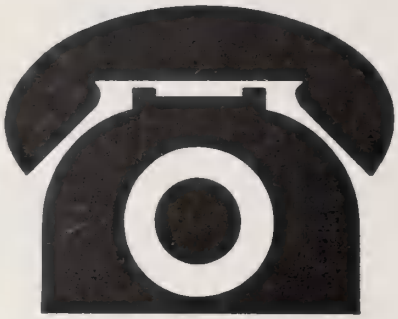

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Tartufo or torte . . . chocolate inside and out

Silky-smooth *Italian-style ice cream lies under frozen tartufo's grated chocolate coating*

To add significance to any special event create one of our extravagantly rich chocolate desserts.

Frozen Italian Chocolate (*Tartufo*)

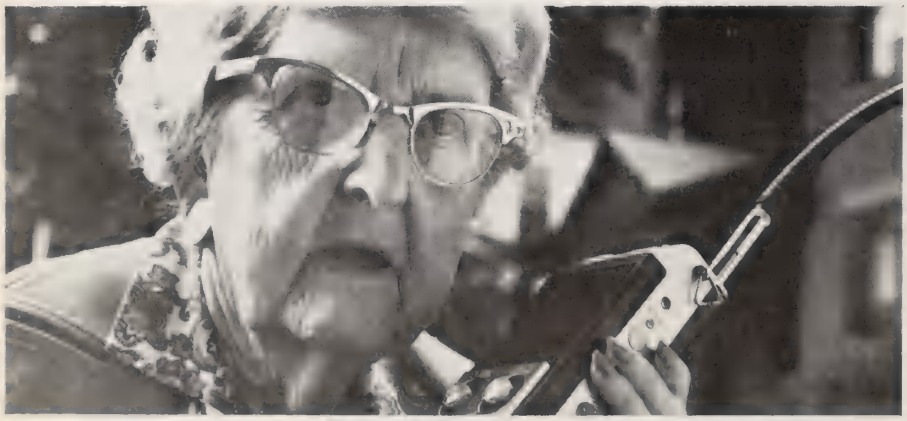
In a small, deep bowl, beat 3 **egg yolks** with an electric mixer until thick. Meanwhile, in a 1-quart pan, boil ½ cup *each* **sugar** and **water** until syrup reaches 234° on a candy thermometer. At once, slowly pour syrup in a thin stream into yolks beating constantly until mixture is very thick and has cooled, 3 to 5 minutes.

In the top of a double boiler over simmering water, melt 6 ounces **semisweet chocolate.** Stir into egg yolk mixture. Gradually pour in 1 cup **whipping cream,** beating constantly until blended. Cover and freeze until firm, 2 to 3 hours.

Meanwhile grate 3 ounces **semisweet chocolate** (or whirl in food processor until finely ground). Place in a mound on waxed paper. Divide frozen mixture into 6 equal portions, and use your hands or two large spoons to shape each portion quickly into a ball (it need not be perfectly round). Roll in grated chocolate to coat. Place slightly apart on a pan and freeze until firm. Cover to store longer than a few hours (up to 2 weeks). Shortly before serving, sprinkle with **powdered sugar.** Makes 6 portions.

Midnight Velvet Torte

For the crust, combine 1 cup crushed **chocolate wafer crumbs** with ¼ cup melted **butter** or margarine. Press evenly over the bottom of an 8-inch round cake



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TAKE A BITE OUT OF CRIME™

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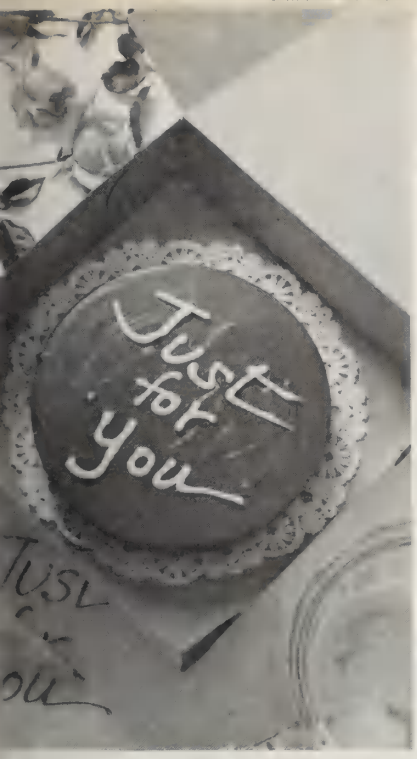
A message from the Crime Prevention Coalition, this publication and The Ad Council

DARROW M. WATT



Personalize *Midnight Velvet Torte by riting your message on paper, then tracing with melted white candy coating in pastry tube. Chill until firm, then transfer to torte*

n with removable bottom. Bake in a 50° oven for 10 minutes. Let cool.

ace in a blender 2 **eggs,** 1 package (12 .) **semisweet chocolate baking chips,** 2 blespoons **sugar,** and 1 teaspoon **va-lla.** In a 1- to 2-quart pan, combine 1¼ ps **milk** and 2 tablespoons **instant cof-e.** Cook over medium heat, stirring oc-sionally, until scalding. Immediately ur hot milk into blender. Whirl at low eed until mixture is smooth, about 1 inute. Add ¼ cup **coffee-flavored li-ieur** or milk; whirl to blend.

ur into a 9-inch-square pan and place the freezer until mixture thickens but not firm, about 1 hour. Stir until oothly blended. Pour into crust-lined n and chill until firm, at least 6 hours. emove pan sides and garnish with a **ocolate message** (directions follow). rve, or cover and chill as long as 5 ys. Makes 12 servings.

ocolate message. In the top of a double iler over barely simmering water, stir out 4 ounces coarsely chopped **white ndy coating** (often sold in candy stores white chocolate) until it is almost lted. Remove from water and stir until ooth. Let candy coating cool to luke-rm (80° to 85°).

eanwhile, write message on a piece of per with a felt-tip pen; cover it with xed paper. Place cooled candy coating a pastry bag fitted with a writing tip. ueeze out candy, tracing message; eze or chill briefly until set. Carefully el off message and set on torte. □

Sunset Western Grocery Directory

Rhinegeld

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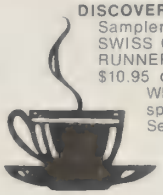

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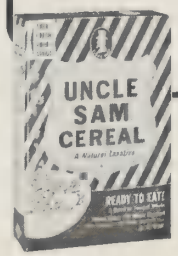

UNCLE SAM
The Regularity
CEREAL

Nature doesn't seem to mind when we try to improve on things . . . such as Ball-park Chicken

Nature is accommodating. She has spent several million years trying this and that in a fond, rather haphazard way, and she never seems to mind when we try to improve on things. "They'll get over it," she undoubtedly says to herself. "They're so very young."

Larry M. Rotha takes one of Nature's achievements—the chicken—and ventures to improve upon it with his version of *coq au vin*. In fact, he ventures to improve upon coq au vin with the judicious addition of yellow ball-park mustard. Try it. Nature, after all, tried the platypus.

Ball-park Chicken

- 1 boneless pork shoulder chop (8 to 10 oz.)
- 3- to 3½-pound broiler-fryer chicken, cut up
- 3 large onions, quartered
- 8 large mushrooms
- 1 cup dry red wine
- 2 tablespoons prepared mustard
- 1 can (14½ oz.) regular-strength chicken broth
- Chopped parsley

Finely dice pork and any fat; place in a 4- to 5-quart kettle over medium-high heat and cook, stirring occasionally, until well browned. Lift out browned bits and set aside.

Rinse chicken pieces; pat dry. Add chicken, a few pieces at a time, to pan drippings. Cook until well browned on all sides, then lift out and set aside. Add onion quarters to pan and brown well on all sides; turn gently to preserve quarters. Set onions aside with chicken.

Add mushrooms to pan and cook until browned, then stir in wine, mustard, an broth, scraping up browned bits in pan Return chicken pieces (except breast) onions, and pork bits to pan. Bring to boil, reduce heat to medium, and bo gently, uncovered, for 15 minutes. Tur over chicken pieces, add breast pieces and continue to cook until meat nea thigh bone is no longer pink whe slashed, 15 to 20 minutes longer.

Arrange chicken and vegetables on serving platter; keep warm. Boil juice over high heat until reduced to about cup. Pour over chicken and garnish wit parsley. Makes 4 servings.

Menlo Park, Calif.

Down in Phoenix, Harold Merkow ha whipped up a little something good t eat. It is not elegant, not presumptuous It is, in fact, a kind of dressy chicken

Chefs of the West

The Art of Cooking . . . by men . . . for men

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Listen for a deep hollow sound. And remember that a smooth stem end means it's been vine-ripened for peak flavor.

LOOK, REALLY LOOK.
You usually look for bright colors. They're what you want with cherries, strawberries and plums. But when it comes to green grapes, the paler the fresher.

SOMETIMES, YOUR NOSE KNOWS BEST.
It's hard to miss with cantaloupe. A strong but sweet aroma says it's ready for immediate enjoyment.

A GENTLE SQUEEZE CAN BE THE HARDEST TEST.
Especially for peaches and nectarines. A little resistance means a lot of juice inside.

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fried steak. He breads the meat with corn flour, pours on some chili salsa, and there it is. He calls it,

Chef's Steak

- ½ cup masa harina or all-purpose flour
- ½ teaspoon *each* ground cumin, oregano leaves, and garlic powder
- ¼ teaspoon *each* onion powder, salt, and pepper
- ⅛ teaspoon cayenne
- 1 egg
- 2 to 3 tablespoons salad oil
- 1 can (7 oz.) green chili salsa
- 2 beef cube steaks (¾ to 1 lb. total)

In a shallow dish, stir together the masa, cumin, oregano, garlic powder, onion powder, salt, pepper, and cayenne. In another shallow dish, beat egg to blend.

Heat 2 tablespoons of the oil in a 10- to 12-inch frying pan over high heat. Pour salsa into a pan (1 quart or smaller) and place over low heat. When oil is hot, dip each steak into egg, then into masa mixture to coat evenly on all sides. Cook steaks in hot oil until well browned on all sides but meat is still pink in center when slashed, 3 to 4 minutes total. Add more oil, if needed, to prevent sticking.

Place steaks on individual plates. Pour salsa into a small bowl and offer it to spoon over meat. Makes 2 servings.

Phoenix

"I love it!" said one of our tasters.

And you, too, may well love *Chef* B. J. Nichols' Hot German Potato Salad. The one thing you might want to play with is the relative quantities of potato and sauce. Some like it dryish and potato[illegible] others prefer it this way with a goo[illegible] quantity of fat and vinegar.

Hot German Potato Salad

- 8 medium-size red thin-skinned potatoes (about 3½ lbs.)
- Water
- 6 slices bacon
- 1 medium-size onion, chopped
- 6 tablespoons sugar
- 2 tablespoons all-purpose flour
- ½ cup cider vinegar
- Salt and pepper

Put potatoes in a 4- to 5-quart kettle a[illegible] add about 2 inches water. Bring to a b[illegible] cover, reduce heat to medium, and co[illegible] until potatoes are tender when pierc[illegible] 20 to 30 minutes.

Meanwhile, in a 10- to 12-inch fry[illegible] pan over medium heat, cook bacon u[illegible] crisp; lift out, drain, and crumble. [illegible] bacon aside. To the drippings add [illegible] onion and cook, stirring occasiona[illegible] until onion is soft. Stir in the sugar a[illegible] flour and cook 1 minute, then mix in [illegible] vinegar and ½ cup water. Cook, stirri[illegible] until bubbly.

When potatoes are tender, drain w[illegible] peel, if desired, and cut into thick sli[illegible] or bite-size chunks. Pour hot dressi[illegible] over hot potatoes, add bacon bits, a[illegible] mix gently but thoroughly. Season [illegible] taste with salt and pepper. Serves 6 to[illegible]

Eugene, Ore.

Summer is a good time for coleslaw. E[illegible] ward Grannis, in Los Angeles, has a go[illegible] one to which he adds a variety of heal[illegible] ful vegetables apart from the cabba[illegible] then blends all with a commercial dre[illegible] ing doctored to suit his palate.

Cool Coleslaw

- 6 cups finely shredded cabbage
- ½ small mild red onion, thinly sliced
- ½ cup shredded carrot
- 1 jar (2 oz.) sliced pimientos, drained
- 1 can (2¼ oz.) sliced ripe olives, drained
- ½ cup peeled, seeded, and diced cucumber
- ½ cup *each* sour cream and prepared coleslaw dressing
- 2 tablespoons cider vinegar
- Salt and pepper

In a large bowl, combine cabbage, onio[illegible] carrot, pimientos, olives, and cucumbe[illegible]

In a small bowl, stir together the so[illegible] cream, coleslaw dressing, and vineg[illegible] Pour over cabbage mixture and stir we[illegible] Season to taste with salt and pepp[illegible] Serve, or cover and chill 2 to 4 hou[illegible] stir several times. Makes 4 to 6 serving[illegible]

Los Angeles

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96% lean and naturally juicy.

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The little ham that's worth a little more.

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Karo No-Cook jam tastes more like fresh fruit because it is fresh fruit. It isn't cooked. So you won't lose all the fresh fruit flavor you may lose by cooking. If you love the taste of fresh fruit jam, remember, you don't need time. You need Karo.

lo-Cook Plum Nectarine Jam
Vash, finely chop 1½ lb ripe plums in rinder, blender or processor. Measure 1¼ ups. Peel, quarter and finely chop 1¼ lb pe nectarines. Measure 1¾ cups. In 4-qt owl stir together fruit and ⅓ cup lemon ice. Slowly sift in 1 pkg (2 oz) MCP® Jam nd Jelly Pectin, stirring vigorously. Set side 30 min, stirring occasionally. Add 1 up KARO® Light Corn Syrup; mix well. iradually stir in 4½ cups sugar. Stir until issolved. Ladle into clean ½-pt freezer ontainers leaving ½" headspace. Cover ghtly. Makes 7 containers.

lo-Cook Cherry Peach Apricot Jam
Vash, stem and pit 2 cups ripe sweet red nerries. Finely chop in grinder, blender or rocessor. Measure 1 cup. Peel, quarter nd finely chop 1 lb ripe peaches. Measure cup. Finely chop 1 lb ripe apricots. leasure 1 cup. In 4-qt bowl stir together uit and ¼ cup *each* lemon juice and brandy. Slowly sift in 1 pkg (2 oz) MCP® Jam and Jelly Pectin, stirring vigorously. Set aside 30 min, stirring occasionally. Add 1 cup KARO® Light Corn Syrup; mix well. Gradually stir in 4½ cups sugar. Stir until dissolved. Ladle into clean ½-pt freezer containers leaving ½" headspace. Cover tightly. Makes 7 containers.

No-Cook Spiced Peach Jam
Wash, peel, quarter and fully crush 2½ lb ripe peaches. Measure 3¼ cups. In 4-qt bowl stir together peaches and ¼ cup lemon juice. Stir in 1 tsp ground ginger and ½ tsp ground nutmeg. Slowly sift in 1 pkg (2 oz) MCP® Jam and Jelly Pectin, stirring vigorously. Set aside 30 min, stirring occasionally. Add 1 cup KARO® Light Corn Syrup; mix well. Gradually stir in 4½ cups sugar. Stir until dissolved. Ladle into clean ½-pt freezer containers leaving ½" headspace. Cover tightly. Makes 7 containers.

No-Cook Strawberry Jam
Wash, hull and fully crush 2-qt ripe strawberries, one layer at a time. Measure 3¼ cups. In 4-qt bowl stir together strawberries and ¼ cup lemon juice. Slowly sift in 1 pkg (2 oz) MCP® Jam and Jelly Pectin, stirring vigorously. Set aside 30 min, stirring occasionally. Add 1 cup KARO® Light Corn Syrup; mix well. Gradually stir in 4½ cups sugar. Stir until dissolved. Ladle into clean ½-pt freezer containers leaving ½" headspace. Cover tightly. Makes 7 containers.

tore freshly made jam in freezer up to one year. For best results keep jar in use in refrigerator up to 3 weeks.

Alice, owner of Alice's Galley

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Creamy-smooth like original Buttermilk Recipe™ dressing.

Enjoy new Buttermilk Recipe Country Spice™ dressing.

With extra spice!

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DAVID STUBBS

White sea bass *contrasts with Swiss chard and fresh, red tomato sauce*

Sea bass steamed, chilled

On a warm day, when you want a coo whole-meal dish for lunch or suppe consider this oven-steamed fish dish.

Chilled Bass on Red and Green

- ¾ pound Swiss chard, washed
- Water
- About 6 tablespoons lemon juice
- 1½ pounds white sea bass, lingcod, or rockfish fillets (boned and skinned), cut in ½- to 1-inch slices
- 12 thin slices *each* lemon and fresh ginger
- 4 medium-size tomatoes, peeled, cored, and seeded
- 2 tablespoons minced green onion
- ¾ teaspoon *each* minced fresh ginger, minced fresh coriander (cilantro), and sugar
- Olive or salad oil

Trim discolored ends from chard sten and discard. Cut off stems and save.

In a 4- to 5-quart pan, bring about inches of water to boiling on high hea Add stems and cook, uncovered, un tender when pierced, about 5 minute lift from water and set aside. Push leav into boiling water and cook, uncovere just until limp, about 3 minutes. Drai cut in 1-inch strips, and chill. Pour ¼ cup lemon juice into an 8- by 12-inc pan; lay fish pieces in pan, side by sid Top with lemon and ginger slices; cove

Bake in a 425° oven until fish flak when prodded, 10 to 12 minutes; chi covered. Mince tomatoes with char stems; add 2 tablespoons lemon juic onion, minced ginger, coriander, an sugar. For each serving, arrange a qua ter each of chard, fish, and tomato sau on a plate. Drizzle chard with olive o and lemon juice; garnish with bake lemon slices. Serves 4.

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DARROW M. WA

Sprinkle *roasted coffee beans atop smooth, rich mocha ice cream*

Ice cream with coffee bean crunch

Crunchy bits of roasted coffee beans a coffee-flavored liqueur emphasize t coffee aspect of this custard-bas mocha ice cream. You cook the custa over direct heat instead of hot water.

Mocha Ice Cream

2½ cups sugar
1 cup cocoa
2 cups *each* milk and strong coffee
6 egg yolks
4 cups (1 qt.) whipping cream
4 teaspoons vanilla
½ cup coffee-flavored liqueur
Coarsely crushed coffee beans and coffee-flavored liqueur (optional)

In a 5- to 6-quart pan, combine sug cocoa, milk, and coffee. Cook, stirri over medium-high heat just until mixtu comes to a boil, about 5 minutes.

In a bowl, beat yolks slightly with a wi whisk. Whip in about 1 cup of the h milk mixture, then pour back into pa Cook on medium-high heat, stirri constantly, until custard thickens sligh and coats a metal spoon smoothly, abo 15 minutes. Cool to lukewarm.

Add cream, vanilla, and the ½ cup queur to the custard. Pour into a 1-gall ice cream maker and secure dasher a lid. Pack with ice and salt according manufacturer's directions and crank u til ice cream is thickened. Serve soft, spoon into a container and store freezer. Pass crushed coffee beans a liqueur to top servings. Makes 1 gallo

L. K., Palo Alto, Calif.

Impossible Zucchini-Tomato Pie

The pie that does the impossible by making its own crust.

- 2 cups chopped zucchini
- 1 cup chopped tomato
- ½ cup chopped onion
- ⅓ cup grated Parmesan cheese
- 1½ cups milk
- ¾ cup Bisquick® baking mix
- 3 eggs
- ½ teaspoon salt
- ¼ teaspoon pepper

Heat oven to 400°. Grease 10-inch quiche dish or pie plate, 10 x 1½ inches. Sprinkle zucchini, tomato, onion and cheese in plate. Beat remaining ingredients until smooth, 15 seconds in blender on high or 1 minute with hand beater. Pour into plate. Bake until knife inserted in center comes out clean, about 30 minutes. Cool 5 minutes. 6 servings.

High Altitude: Bake about 40 minutes.

Join the Bisquick Recipe Club. See package for details. Send $3.00 to General Mills, Inc., Box 5183, Minneapolis, MN 55460.

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Facts about our chips and your star of th

nd nutrition that you tage should know.

He's a hit. He didn't forget a line. He didn't s a cue. But he's not headed for Broadway r school, he's headed home for something to . So when your scene stealer comes through door, what will you do if he asks you for ato chips?

How will you feel as a mother, knowing v hard you try to get your ily to eat the right things?

he more you know, the better you'll feel.

Right off, we're going to you that our snack chips not the answer to total rition, but they can be part t.

No food provides all the rients in all the amounts ired for good health. That's a balanced diet's important. l when your family enjoys chips as part of that balanced , they're getting beneficial rients in every ounce.

ke Ruffles® Brand Potato Chips for example.

A one ounce serving (about 20 good-sized chips) is a good rce of Vitamins C and B_6. In l, Ruffles Potato Chips contain at least 13 ely recognized nutrients. Because they're d from fresh potatoes and quick-cooked to keep the natural nutrients in.

Kids don't watch calories, but you do.

That same one ounce serving contains 150 Calories. That's a surprising figure to of people. They expect much more from otato chips.

So even if your family eats more than one ce, and sometimes that's easy to do, they'll get fewer calories than you thought.

Ruffles®

Potato Chips

NUTRITION INFORMATION

(Per Serving) Serving Size 1 ounce Number of Servings 8

Calories	**150**	
Protein	**2**	**grams**
Carbohydrate	**14**	**grams**
Fat	**10**	**grams**
Cholesterol* (0 mg/100 g)	**0**	**milligrams**
Sodium (925 mg/100 g)	**260**	**milligrams**
Potassium (1020 mg/100 g)	**290**	**milligrams**

Percentage of U.S. Recommended Daily Allowances (U.S. RDA)

Protein	**2**
Vitamin A	**
Vitamin C	**10**
Thiamine	**2**
Riboflavin	**
Niacin	**4**
Calcium	**
Iron	**2**
Vitamin B_6	**10**
Phosphorus	**4**
Magnesium	**4**
Copper	**6**

*Information on cholesterol content is provided for individuals who, on the advice of a physician are modifying their total dietary intake of cholesterol

**Contains less than 2% U.S. RDA for this nutrient

What about salt?

One ounce of Ruffles Potato Chips contains less sodium than a lot of foods you'd never think of. Like a ½ cup of cottage cheese. Two slices of bread. Or an 8 ounce glass of tomato juice. But it's easy to explain. Potato chips *taste* salty because the salt is on the outside. The same goes for our corn chips. And they have even less salt.

The facts about cholesterol and preservatives.

The regular flavor Frito-Lay chips shown below contain no cholesterol. None. Because they're fried only in vegetable oils that are high in polyunsaturates. The chips flavored with cheese or sour cream are fried in the same oils but contain the small amount of cholesterol that comes from real cheese and sour cream.

And there are no preservatives in any of these chips, regular or flavored.

All this is on the back of the bags. No one said we had to have nutrition labeling. But we do. Because we'd like to play a role in making you feel better about what you serve your family.

GOOD THINGS TO KNOW ABOUT GOOD THINGS TO EAT.

Frito Lay®

For more information about nutrition and our chips, write for our brochure. Frito-Lay, P.O. Box 35034, Dept. 6P, Dallas, Texas 75235.

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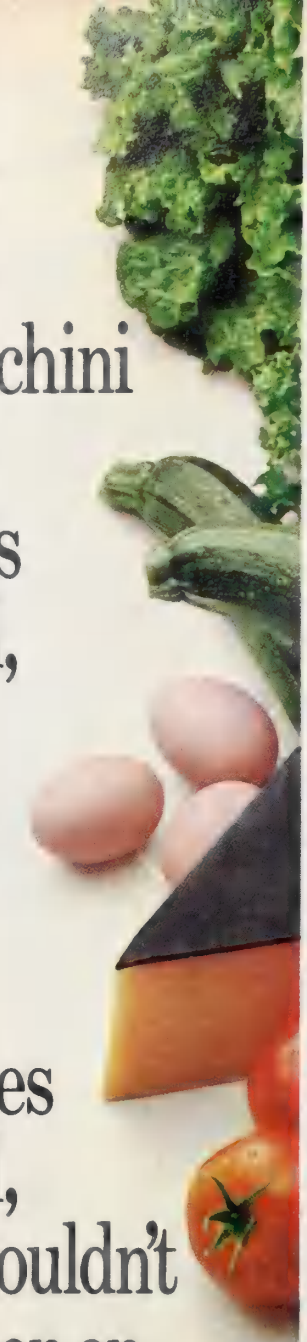
If the lettuce is real, the zucchini is real, the eggs are real, the cheese is real, the tomatoes are real, then shouldn't the bacon on top be real, too?



Hormel Bacon Bits are 100% real bacon. Lean and smoky. And delicious on practically everything.

So if you cook with real ingredients, don't stop when you get to the top.

Hormel Bacon Bits 100% real bacon.

DARROW M. WATT

Natasha can't resist *Yugoslavian appetizers of piquant cheese, crusty homemade bread, ham, and vegetable relishes*

Appetizers and desserts with Yugoslav

The Yugoslavian appetizer and dessert recipes featured here are part of the picnic menu on page 74. Yet, these versatile dishes stand quite well on their own.

The piquant cheese spread, which typically goes on chunks of farmer's bread, is also good on raw vegetables, bread rounds, or crackers. On its own, the robust bread suits any meal.

The two relishes can go with the cheese and bread, or with barbecued meats, including the grilled kabobs on page 120.

Sugar-whitened fried cookies called *hrustule* (or *rostule*), served for our picnic dessert, are also appropriate with light refreshments.

Feta Cheese Spread

Crumble 8 ounces **feta cheese** into the small bowl of an electric mixer. Add 2 large packages (8 oz. each) **cream cheese,** at room temperature. Beat to blend. With mixer set on low speed, blend in ½ cup **whipping cream.** Use, or cover and chill as long as 1 week. Serve at room temperature. Makes about 2½ cups.

Slavic Farmer's Bread

About 6¼ cups all-purpose flour
1 teaspoon salt
⅓ cup butter or margarine
E packages active dry yeast
About 2 cups lukewarm water (110°)

In a large mixing bowl, combine 4 cups of the flour and the salt. Using a pastry blender, cut in the butter until even, coarse crumbs form.

Combine the yeast and 2 cups water a let stand 5 minutes to soften.

Add the yeast and water to the flour m ture; mix with a heavy-duty mixer or heavy spoon. Mix in 1 cup more flour make a stiff dough. Turn dough out on a floured board; knead until smooth a elastic, about 10 minutes, adding flour needed to prevent sticking.

Place dough in a greased bowl; turn grease top. Cover and set in a warm pla until dough doubles, about 1½ hours.

Punch dough down. On a lightly flour board, shape into a large oval loaf (abo 7 by 9 inches). Set on a greased baki sheet, at least 12 by 15 inches. Cover a let rise in a warm place until double about 45 minutes.

With a sharp knife, make a ½-inch-de cross on top of loaf; brush loaf with w ter. Bake in a 400° oven for 25 minut Reduce heat to 350°; bake until lo sounds hollow when tapped, about minutes longer. Cool on wire rack. Ser or wrap in foil and freeze; thaw wrappe Makes 1 large loaf.

Eggplant Relish (*Ajvar*)

2 eggplants (1 to 1¼ lbs. each)
⅔ cup olive oil
5 *each* large red and green bell peppe
2 cloves garlic, minced or pressed
2 tablespoons white wine vinegar
½ cup finely chopped parsley
Salt and pepper

Stem eggplants and cut in half lengt wise. Brush cut sides with part of t

Nothing draws a full house like the great taste of Nestlé Pan Cookies.

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Nestlé
Oatmeal Scotchie Pan Cookies

2 cups unsifted flour
2 measuring teaspoons baking powder
1 measuring teaspoon baking soda
1 measuring teaspoon salt
1 cup butter, softened
1½ cups firmly packed brown sugar
2 eggs
1 measuring tablespoon water
1½ cups quick oats, uncooked
1 12-ounce package (2 cups) Nestlé Butterscotch Morsels
½ measuring teaspoon orange extract

Preheat oven to 375° F. In a small bowl, combine flour, baking powder, baking soda and salt; [illegible] aside. In a large bowl, combine butter, brown sugar, eggs and water; beat until creamy. Gradually add flour mixture. Stir in oats, [illegible] Butterscotch Morsels and orange extract. Spread into greased 15x10x1-inch baking pan. Bake at 375° F for 20-25 minutes. Cool; cut into thirty-five 2-inch squares.

Nestlé
Toll House® Pan Cookies

2¼ cups unsifted flour
1 measuring teaspoon baking soda
1 measuring teaspoon salt
1 cup butter, softened
¾ cup sugar
¾ cup firmly packed brown sugar
1 measuring teaspoon vanilla extract
2 eggs
1 12-ounce package (2 cups) Nestlé® Toll House® Morsels
1 cup chopped nuts

Preheat oven [illegible] 375° F. In a small bowl, combine flour, baking soda and salt; set aside. In a large bowl, combine butter, sugar, brown sugar and vanilla extract; beat until creamy. Beat in eggs. Gradually add flour mixture; mix well. Stir in Nestlé Toll House® Morsels and nuts. Spread into greased 15x10x1-inch baking pan. Bake at 375° F for 20-25 minutes. Cool; cut into thirty-five 2-inch squares.

Nestlé

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olive oil; arrange cut sides up on a 10- by 15-inch rimmed baking sheet. Set whole peppers on their sides on another 10- by 15-inch rimmed baking sheet. Bake in a 450° oven (peppers on lowest rack), turning peppers several times, until vegetables are brown and soft, about 45 minutes. Wrap peppers in plastic bags until cool. Peel peppers; discard skin and stems. Finely chop unpeeled eggplant and peppers; drain in a wire strainer.

Combine chopped vegetables in a bowl with the garlic and vinegar. With a heavy spoon, beat in remaining olive oil. Stir in the parsley and salt and pepper to taste. Serve, or cover and chill up to a week. Use at room temperature. Makes about 4½ cups.

Tomato-Pepper Relish (*Pindzur*)

The dried red chilies are available in markets with Mexican products.

- 2 large cans (28 oz. each) pear-shaped tomatoes
- 2 ounces (6 to 8) dried red California or New Mexico chilies
- ¼ cup *each* olive oil and salad oil
- 6 to 8 cloves garlic, minced or pressed
- 1 teaspoon sugar
- Salt and cayenne

Drain tomatoes, reserving liquid. Heat liquid to boiling; add chilies and let soak 2 hours. Scrape pulp and seeds from skin; reserve. Discard chili skins and stems.

In a 12- to 14-inch frying pan over medium-high heat, combine the pepper pulp, tomato liquid, tomatoes, olive oil, salad oil, garlic, and sugar. Break tomatoes into pieces. Cook, stirring frequently, until juices evaporate, about 30 minutes; cool. Season to taste with salt and cayenne. Serve, or cover and chill up to 1 week. Use at room temperature. Makes 3½ cups.

Crisp-fried Cookies (*Hrustule*)

In a large bowl of an electric mixer, beat 2 **eggs** and ¼ cup **sugar** until lemon colored. Mix in 2½ tablespoons *each* **brandy** and melted **butter** or margarine, ¼ teaspoon **salt,** 2 teaspoons **anise seed** and ½ teaspoon grated **lemon peel.** Gradually stir in 1½ cups **all-purpose flour.** Turn dough out onto a board coated with ⅓ cup more **all-purpose flour;** knead until it forms a smooth ball. Wrap in foil and let rest 30 minutes.

Working with ⅓ of the dough at a time, roll on a well-floured board to a paper-thin 6- by 30-inch rectangle. With a pastry wheel or knife, cut dough into 1- by 6-inch strips; tie strips into loose knots.

In a deep 3- to 4-quart pan, heat 1 inch of salad oil to 360° on a deep-fat frying thermometer. Add several cookies at a time and fry, turning once, until golden brown, about 1 minute. Drain on paper towels. While warm, sprinkle generously with powdered sugar. Serve, or store in airtight containers at room temperature up to 3 days. Makes 7 dozen cookies.

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Mexi-Brunch Eggs

2 large baking potatoes, peeled
½ pound bulk pork sausage
½ cup finely chopped onion
1 can (4 oz.) OLD EL PASO Chopped Green Chilies
4 eggs
1 avocado, peeled, seeded and sliced
Cilantro or parsley sprigs, if desired
OLD EL PASO Taco Sauce

Dice potatoes into ¼-inch cubes. In a large skillet, cook and mash sausage until lightly browned. Add diced potatoes, onion and green chilies. Cover and cook over medium heat until potatoes are tender (15 minutes). With a large spoon, press 4 indentations in mixture and break an egg into each. Cover and cook until eggs are set (5 minutes). Garnish with avocado slices and cilantro or parsley sprigs, if desired. Serve with taco sauce. Makes 4 servings.

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Sweet and hot and versatile dressing

Sweet, tart, and hot flavors marry in this light salad dressing, a simple blend of honey, vinegar, and crushed red pepper. It's an intriguing foil for fresh fruit, fish, and crisp vegetables, bringing these elements together. Fresh coriander, added separately, contributes to the dressing's effect.

For a warm weather entrée, combine elements as shown at right, or present as two separate salads.

Honey-Vinegar Salad Dressing

- 1 cup distilled white vinegar
- ¼ cup honey
- ¼ teaspoon crushed dried hot red chili pepper

In a 1- to 1½-quart pan, combine the vinegar, honey, and pepper. Boil rapidly, uncovered, until reduced to ½ cup. Let cool to room temperature. Use as directed in the following salads, or cover and chill as long as 3 days. Makes ½ cup or enough for 3 to 4 servings.

Fruit and Shrimp Supper Salad. For each serving, arrange the following attractively on a chilled plate: 2 or 3 slices *each* fresh pineapple, orange (peel and white membrane cut off), and banana (sprinkled with lemon juice to prevent discoloration); ¾ cup finely shredded cabbage; ¼ cup shredded carrot; and ¼ to ⅓ pound small cooked shrimp. Garnish with 1 to 2 tablespoons fresh coriander (cilantro) leaves and top shrimp with 1 to 2 teaspoons sliced green onion. Drizzle each salad with 2 to 3 tablespoons Honey-Vinegar Salad Dressing.

Coriander and Shrimp Salad. In a medium-size bowl, combine ¾ to 1 pound small cooked shrimp, 4 green onions and tops (thinly sliced), 2 tablespoons finely chopped fresh mint, and ¼ cup coarsely chopped fresh coriander (cilantro) leaves. Pour in 1 recipe's worth Honey-Vinegar Salad Dressing; mix gently to blend. Mound on 4 salad plates lined with shredded cabbage or lettuce. Serves 4.

Fresh Fruit Salad Tray. Peel, core, and slice 1 pineapple (about 3 lbs.) into spears or half-rounds. Cut the peel and white membrane of 3 medium-size oranges; thinly slice oranges. Peel 2 o 3 large bananas and slice diagonally sprinkle with about 3 tablespoons lemo juice. Arrange fruit attractively on a tra in separate rows and garnish with 1 cu fresh coriander (cilantro) leaves. T serve, pour 1 recipe's worth Honey-Vin egar Salad Dressing over all. Serves 4.

DARROW M. WAT

Tangy *oil-free dressing complement fruit, fish, and vegetable*

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Lawry's Classic Salad Dressings are the new elegantly-delicious Lawry Salad Dressing line. Made with only the finest ingredients, and expertly blended for a perfectly balanced taste, the "Classics" include: Italian with Parmesan Cheese, Italian with Bleu Cheese, Red Wine Vinaigrette and White Wine Vinaigrette.

California Ripe Olives, with their unique flavor and velvety texture, add a dramatic accent to your salads. Sliced, chopped or whole, ripe olives blend perfectly with other quality ingredients, making any meal a "Classic."

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Salad-stuffed tomato, *rice-filled grape leaves, string cheese, and fresh plums get packed in the morning—for office-friend picnickers to take to a noontime concert*

Three bag-lunch picnic menus for office mates

e **bag lunch** can be a portable party—h a little advance planning on your t. Prepare lunch for yourself and eral friends, then brown-bag it to a rby park for a more casually paced al than a crowded restaurant affords.

recommend three easily prepared en-s for portable picnics, with sugges-s for completing each menu. For erages, shop for wine or fruit juices ingle-serving containers.

transport the lunches, we assembled nponents on 6-inch paper plates and pped them in double thicknesses of tic wrap. These plates pack neatly 6- to 7-inch paper bags—slightly er than ordinary sandwich-size ones.

literranean Tomato Salad

nbine ¼ cup **salad oil;** 1½ table-ons **lemon juice;** 2 teaspoons **white e vinegar;** 1 small clove **garlic,** ced (optional); and ½ teaspoon *each* and **pepper.** Add 1 can (15 oz.) **gar-cos** (drained), 1 cup chopped **red n,** and ¼ cup *each* chopped **parsley fresh mint.** Stir to mix.

tops off 4 large, firm, ripe **tomatoes.** p out seeds and pulp and fill with d; replace tops. Wrap to carry with ed **stuffed grape leaves, string se,** and **apples** or plums. Serves 4.

able Gazpacho

ad ¼ cup **slivered almonds** out in a (at least 8-inch diameter) and toast 350° oven until golden, about 10 minutes; shake pan often. Combine with 1 medium-size seeded and chopped **cucumber;** 1 small chopped **red onion;** ½ teaspoon **oregano leaves;** and 5 or 6 drops **liquid hot pepper seasoning.** Divide among four 8-ounce paper cups and wrap to carry. At picnic, add to each cup 1 small can (6 oz.) **tomato juice** or chili-seasoned tomato juice cocktail. Present as at right. Makes 4 servings.

Chopped Chicken Livers and Bagels, with Egg and Bacon Shakers

Simmer ½ pound **chicken livers,** covered, in boiling water to cover until no longer pink when slashed, about 15 minutes. Drain and put in a blender along with ¼ cup (⅛ lb.) **butter** or margarine, cut in chunks; ¾ teaspoon **dry mustard;** ⅛ teaspoon **ground nutmeg;** and 2 tablespoons **brandy** or lemon juice. Whirl until smooth. Mix in 3 chopped **green onions** and season with **salt** and **pepper.** Cover and chill until firm. Split 4 **bagels** and spread liver paste evenly over halves.

To make the bacon-and-egg shakers pictured at right, with a spoon scoop out centers of eight 2-inch lengths of small **zucchini,** making a ¼-inch-thick shell. Mash 2 or 3 hard-cooked **eggs** and fill 4 of the shells. Crumble 3 to 5 slices crisply cooked **bacon** and fill remaining shells. Set one shell of each on plate with 2 bagel halves. Wrap to carry.

To eat, sprinkle the egg and bacon on bagels and offer **dill** or sweet **pickles.** Makes 4 servings. □

DAVID STUBBS

Quick gazpacho lunch: *pour tomato juice over crunchy vegetables. Alongside: breadsticks, ham, cheese, and a lime wedge*

Chopped liver *on chewy bagel halves gets topping of crumbled egg and crisp bacon, transported in hollowed zucchini. Accompany with dill or sweet pickles*

THE LESSON

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Fresh produce and special ingredients that are becoming easier to find in supermarkets figure in this month's menus. For a hot-weather outdoor feast, there's a pasta salad laced with crisp summer vegetables and garnished with Oriental mushrooms. For dessert, choose from July's luscious melons—Crenshaw, honeydew, casaba, Persian, and cantaloupe.

Strawberries, apricots, and peaches get star treatment at breakfast, floated on yogurt and drizzled with crisp caramelized sugar. For an oven supper, bake crunchy jicama (a root vegetable often used raw) with potatoes and sausage. Sliced tomatoes and cool cucumbers accompany them for an easy meal.

Alfresco summer feast

This picnic or patio menu is highlighted by a pasta salad. Thin noodles are flecked with sesame seeds and mixed with colorful stir-fried vegetables. The dressing is lightly sweet and tart.

Cold Roasted Cornish Game Hen Halves
Oriental Pickled Vegetables
Sesame Noodle Salad
Melon **Grapes**
Wine **Fruit Juice**

Pickled vegetables such as *kim chee*, *takuwan* (pickled radish), or onions, though typically found at an Oriental market, are also frequently available in supermarkets; check refrigerated and fancy food sections.

Both the poultry and pasta salad can be prepared the night or morning before serving. Roast the game hens whole, then cut into halves (allow half a hen for each serving), cool, and chill.

The dark Oriental mushrooms for the salad are available dried and sometimes fresh (sold as *shiitake*) in markets that carry specialty produce or Oriental groceries. If they aren't available, you could substitute regular mushrooms.

Sesame Noodle Salad

Water
8 ounces vermicelli
8 medium-size fresh shiitake or dried Oriental mushrooms or large regular mushrooms
About 3 tablespoons salad oil
2 teaspoons minced fresh ginger
¼ pound green beans, cut diagonally into ¼-inch-thick slices
2 medium-size carrots, peeled and cut into julienne strips
2 medium-size crookneck squash, cut into julienne strips
1 tablespoon *each* soy sauce and dry sherry
Sesame dressing (recipe follows)
Salt
2 or 3 whole green onions (optional)

In a 5- to 6-quart pan, bring 3 to 4 quarts water to boiling. Add vermicelli and

DARROW M. WATT
After a long walk *in the hills, hikers are ready for a cool picnic: mushroom-garnished noodle salad, roasted game hens, pickled vegetables, and sweet melon and grapes*

JULY MENUS

Pasta salad picnic with game hens, fruit and yogurt breakfast, one-pan sausage supper

DARROW M. WATT

Drizzle *hot caramelized sugar over berries in yogurt; the sugar will harden into a sweet, crisp veil*

boil, uncovered, until barely tender to bite, about 9 minutes. Drain and rinse well with cold water; drain well. Place in a large bowl and set aside.

If using the dried Oriental mushrooms, soak them in warm water to cover until soft and pliable, 20 to 30 minutes; cut off and discard tough stems. For fresh mushrooms, set mushroom caps aside and cut stems into julienne strips.

In a 10- to 12-inch frying pan, heat 2 tablespoons oil over high heat. When pan is hot, add ginger, green beans, carrots, squash, and slivered mushroom stems, stir-frying vegetables just until vegetables are barely tender-crisp, 1 to 1½ minutes. Remove from pan; add to noodles.

To the frying pan add 1 tablespoon oil, soy, sherry, and mushroom caps. Cook over medium heat (cover pan if using dried mushrooms; leave uncovered if using fresh shiitake or regular mushrooms), turning occasionally, until mushrooms absorb all liquid, about 2 minutes.

Mix sesame dressing with noodles and vegetables. Add salt to taste. Cover and chill, stirring occasionally, at least 2 hours or as long as overnight. Garnish with sautéed mushrooms and green onions. Makes 4 to 6 servings.

Sesame dressing. In a 10- to 12-inch frying pan, combine ¼ cup **salad oil** and 3 tablespoons **sesame seed.** Cook, unco ered, over medium-low heat, shaking pa occasionally, until seed is golden, abo 2 minutes. Remove from heat and l cool. Stir together ⅓ cup **sugar,** ½ cu **distilled white vinegar,** and 2 tablespoo **dry sherry** until sugar is dissolved. M with cooled sesame seed and oil mixtur

Light breakfast for two

Fruit and yogurt wear an elegant gui when veiled with caramelized sugar. T caramel takes only minutes to prepa and provides a crisp contrast to the jui fruit and tangy yogurt.

Fruit with Yogurt and Caramelized Suga
Cold Cooked Ham Slices or Eggs (option
Toast or Brioche Butter
Coffee or Tea

For light eaters, fruit and yogurt wi toast may be sufficient. Heartier app tites might appreciate the addition of ha or eggs. The fruit and yogurt can easi be multiplied for additional servings.

Fruit with Yogurt and Caramelized Sugar

Rinse and dry 6 to 8 large **strawberri** and remove stems; or cut 4 small **ap cots** into halves and remove the pits; peel 2 small **peaches,** cut into halves, a

Since 1928, people haven't just eaten our ice cream, they've loved it.

JOHN THOMASON

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About this time, the store owner said, "But, John, can't you substitute?"

John said, "Yep. But it just wouldn't be Dreyer's. And your customers wouldn't be missing it nearly so much when it's gone."

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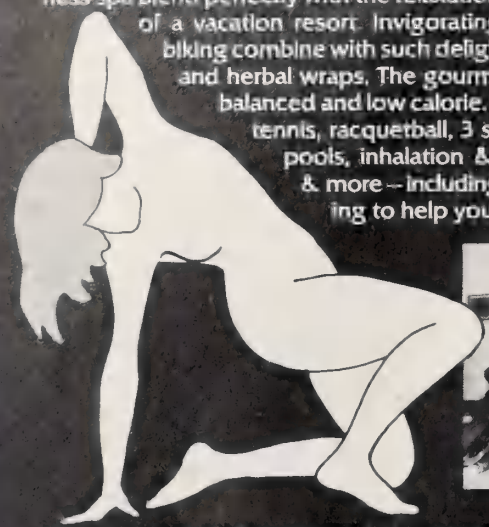

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remove pits. Divide a 6- to 8-ounce ca ton of **unflavored yogurt** between 2 sma shallow serving bowls. Set 3 or 4 berrie 4 apricot halves, or 2 peach halves yogurt in each dish.

Place about 1½ tablespoons **sugar** in 6-inch frying pan or a 1-quart or smalle pan. Set over medium heat and shake pa to mix sugar as it begins to liquefy an caramelize. When sugar is liquid an amber in color (do not scorch), let co briefly until it thickens to the consistenc of a light syrup, about 1 minute. Slowl drizzle caramelized sugar over fruit an yogurt in a thin, steady stream. Serv Makes 2 servings.

One-pan oven supper

Styled after *rosti,* a Swiss potato dis minced onions, diced potatoes, and j cama cubes bake together with sausag for a simple oven meal.

Sliced Tomatoes and Cucumbers
Roast Sausages and Vegetables
Fruit Sherbet

Even when cooked, jicama—a brow skinned, white-fleshed root vegetable— maintains its crisp texture and slightl sweet flavor. It offers a pleasing contra to tender, mild-flavored potatoes. Jicam can be found in the produce section c many supermarkets, or try Mexican c Oriental markets. It is sold whole or b the piece. Store leftover jicama, covere in the refrigerator to use raw as an appe tizer or in salads.

Roast Sausages and Vegetables

- ¼ cup (⅛ lb.) butter or margarine
- 1¼ pounds (about 2 large) thin-skinned potatoes, scrubbed and cut into ½-inch cubes
- 1 pound jicama, peeled and cut into ½-inch cubes
- 2 large onions, finely chopped
- 1 to 1¼ pounds (4 to 6 medium-size) mild or hot Italian sausages
- ½ cup chopped parsley
- Salt and pepper

Turn oven to 450°; put butter in a roast ing pan about 12 by 17 inches and set i oven to melt. When butter has melte add potato, jicama, and onions; stir t coat vegetables in butter. Bake, unco ered, in the 450° oven, stirring occasion ally, for 45 minutes. Remove pan fro oven and push vegetables aside to mak room for sausages.

Lay sausages in a single layer in pa alongside vegetables. Return to oven an continue cooking, stirring vegetables oc casionally and turning meat once, unt vegetables are tender and golden an sausages are browned, 45 to 60 minute longer. Stir chopped parsley into vege tables. Add salt and pepper to tast Mound vegetable mixture onto a servin platter, with sausages alongside. Make 4 to 6 servings.

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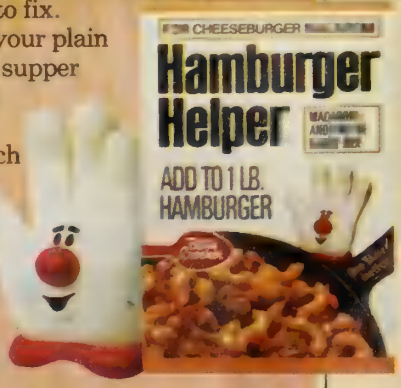

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ɔs your hamburger make a great meal.

Taco Salad

1 pound ground beef
1 package HAMBURGER HELPER® mix for CHEESEBURGER MACARONI
3⅓ cups hot water
2 to 3 teaspoons chili powder
1 large clove garlic, crushed
Dash of cayenne pepper, if desired
6 cups shredded lettuce
1 medium green pepper, chopped (about 1 cup)
2 medium tomatoes, chopped (about 1½ cups)
⅓ cup sliced green onions (with tops)
¼ cup sliced pitted ripe olives

Cook and stir ground beef in 10-inch skillet until brown; drain. Stir in Macaroni, Sauce Mix, water, chili powder, garlic and cayenne pepper. Heat to boiling, stirring constantly. Reduce heat; cover and simmer, stirring occasionally, 15 minutes. Uncover and cook 5 minutes longer. Place lettuce, green pepper, tomatoes, onions and olives in large bowl; toss with ground beef mixture. Serve immediately or, if desired, cover and refrigerate until chilled, at least 4 hours. Serve with tortilla chips and dairy sour cream if desired. 6-8 servings.

High Altitude Directions (3500 to 6500 feet): Increase hot water to 3½ cups and simmer time to 20 minutes.

For more super supper salad ideas send for your **free** "Pasta Supper Salads with Hamburger Helper Cookbook" by writing to:

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Camp stew "cooks" all day in your sleeping bag

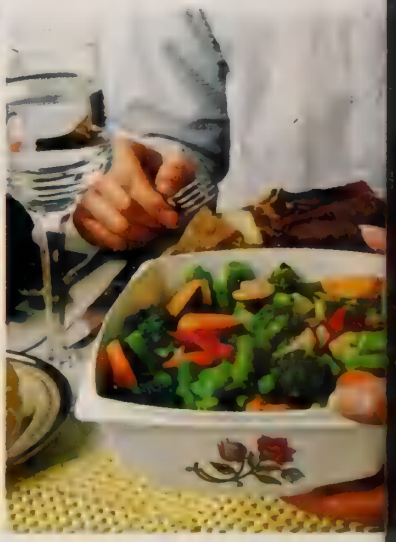
On camp stove, *sauté onions and chilies in drippings from browned beef*

DARROW M. WATT

Newspaper-wrapped pan *of hot stew slips into paper bag ready for sleeping bag cover*

Sleeping bag's *thick double folds enclose kettle and insulate its heat*

Fellow campers might raise their e
brows when you announce you are go
to make dinner when you make your b
But the sleeping bag that keeps you c
at night can also insulate parti
cooked, hot foods sufficiently to conti
the cooking process and reduce the t
you spend at the camp stove. You s
not only holiday time, but fuel as wel
Here we apply this practical idea to



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over a generation, makes it satisfyingly sweet. Without all the calories of sugar. It's quick, easy and your family and friends will love this colorful, refreshing salad.

FRUIT'N BERRY SALAD

- 2 envelopes Knox® Unflavored Gelatine
- 1 teaspoon Sweet 'N Low® (4 packets)
- 1 cup boiling water
- 2½ cups cranberry juice cocktail
- 1 cup sliced peaches or nectarines
- ½ cup blueberries
- ½ cup sliced strawberries

In large bowl, mix Knox Unflavored Gelatine with Sweet 'N Low; add boiling water and stir until gelatine is completely dissolved. Stir in cranberry juice. Chill, stirring occasionally, until mixture is the consistency of unbeaten egg whites. Fold in remaining ingredients. Turn into 5-cup mold or bowl; chill until firm. Makes 10 servings. 60 calories per serving.

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1.5 LITER MAGNUM
ALSO IN 750 ml

Light Country White

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braised meat dishes: one beef, the oth pork. First you brown the meat and ve etables to develop their flavor. Add li uid and cook for a set period of time start the tenderizing process. Then y quickly encase the covered pan in a thi layer of newspapers, slip the wrapp pan into a paper bag (to make the pack easier to handle), and envelop it in t thick, evenly distributed folds of a slee ing bag.

In about 4 hours, the meat will be su culently tender and still very hot, but can wait as long as 6 hours before it b gins to lose a good serving temperature

Equipment and technique for sleeping bag cookery

You will need a heavy 5- to 6-quart p (not cast iron) with a tight-fitting lid, to 16 sheets of newspaper, string (o tional, but helpful), a large, double-thi paper bag, and a sleeping bag (we test both polyester and down bags).

When the food reaches the point to pac do not remove lid. Working quick wrap pan with newspapers (tie with stri if you like), then place inside the pap bag. Slip the wrapped packet into t center of the sleeping bag. Make a doub fold of the end of the bag and set the e cased pot on top, then double-fold t open end of the bag so that the folds a directly on top of the pot (see photogra at far right on page 146).

The first stew is chuck roast simmer with onions and green chilies. To ser Mexican-style as *ropa vieja* (translatio old rags), pull the meat apart in shre and fold up in flour tortillas.

Beef Chili Stew (*Ropa Vieja*)

- 3- to 4-pound chuck roast (with bone), fat and gristle trimmed off
- ¼ cup vinegar
- 4 medium-size onions, cut into thick slices
- 2 large cans (7 oz. each) whole green chilies, seeded and cut into ½-inch-wide ribbons
- 1½ teaspoons *each* oregano leaves an cumin seed
- 1 cup water
- Salt and pepper
- Flour tortillas (optional)

Cut meat in half and set in a 5- to 6-qu heavy pan on medium-high heat. Bro meat well on both sides; this takes abo 20 minutes. Turn heat to low, lift o meat, and set aside. Add vinegar a scrape pan to loosen browned bits fro bottom. Add onions and chilies and co stirring, over medium-high heat un onion is limp.

Add oregano, cumin seed, water, and t browned meat, stirring to work me down to bottom of pan. Cover and co over medium heat for 1 hour.

Without removing lid, quickly wrap p and pack in sleeping bag following p ceding instructions. Let sit undisturb

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Wilderness helps make your favorite fruit your favorite cobbler.

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Cheery Cherry Cobbler

1 can (21 oz.) Wilderness Cherry Fruit Filling; 1/2 tsp. almond extract; 1 cup flour; 1 tbsp. sugar; 1-1/2 tsp. baking powder; 1/2 tsp. salt; 3 tbsp. butter; 1/2 cup milk; 2 tbsp. almonds

Preheat oven to 400° F. Combine Wilderness Cherry Fruit Filling and almond extract in ungreased 1-1/2 quart casserole. In small bowl, mix flour, sugar, baking powder and salt. Add butter and milk and cut through butter 6 times, then mix until dough is well blended. Drop dough by 6 spoonfuls onto fruit filling. Sprinkle toasted slivered blanched almonds onto biscuit topping. Bake 30 to 35 minutes or until biscuit topping is golden brown. Serve warm. May be garnished with whipping cream.

Blueberry Cobbler: Substitute Blueberry Fruit Filling and 1/2 teaspoon grated orange peel for Cherry Fruit Filling and extract; substitute 1/2 cup orange juice for the milk in biscuit topping.

Apple Cobbler: Substitute Wilderness Apple Fruit Filling and 1/2 tsp. ground nutmeg for Cherry Fruit Filling and extract. All recipes serve 6.

Wilderness So fresh you'll think you picked it yourself.

DARROW M. W

Four to six hours later, *steaming beef and chili stew emerges from wrappers. Serve with salad and flour tortillas*

at least 4 hours or as long as 6 hours.

To serve, pull hot meat apart into shr with two forks. Add salt and pepper taste. Makes 4 to 6 servings.

Cubes of pork simmered with carr onions, potatoes, and white wine m this second stew. To serve, lift out meat, then mash the vegetables in broth to make a thick gravy.

Pork and Carrot Stew

- 2½- to 3-pound boneless pork butt cut into 2-inch cubes
- 2 tablespoons salad oil
- 3 medium-size onions, coarsely chopped
- 2 cloves garlic, minced or pressed
- ¾ cup dry white wine
- ½ teaspoon thyme leaves
- 1 whole bay leaf
- 6 medium-size carrots, thinly sliced
- 3 medium-size thin-skinned potatoes cut into 1-inch cubes
- Salt and pepper

In a 5- to 6-quart heavy pan on medi high heat, brown pork well on all si Lift out meat and set aside.

To pan, add oil, onions, and garlic. Co stirring, until onion is very limp. A wine and scrape to loosen browned from bottom of pan. Add thyme, b carrots, potatoes, and the browned m Cover and simmer on medium heat 30 minutes.

Without removing lid, quickly wrap and pack in sleeping bag following ceding instructions. Let sit undistur at least 4 hours or as long as 6 hours.

To serve, lift out portions of meat. M vegetables in broth to make a gravy. A salt and pepper to taste. Makes 4 t servings.

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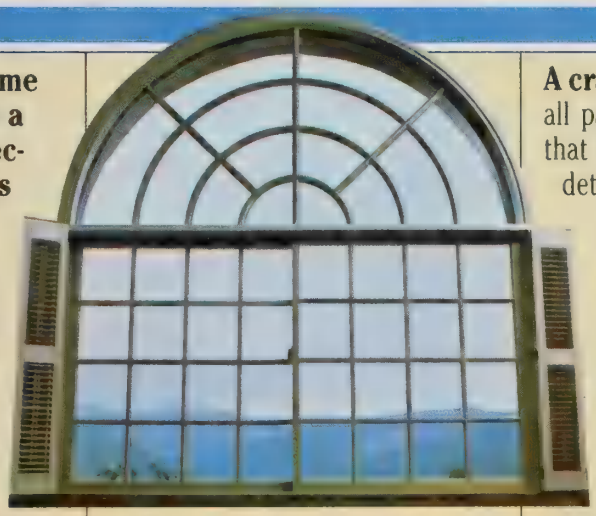

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German fruit kuchen . . . sponge cake with a well

DARROW M. WATT

German cake *has recessed center to fill with cherry topping or other summer fruits; serve in wedges with cream*

The light sponge-cake base for this fruit kuchen is baked in a special pan with a base that forms a well in the center of the cake. Sometimes called a Mary Ann or flan pan, it is available in cookware shops, or you can use a standard tart pan.

Fruit Kuchen (*Obstkuchen*)

In the large bowl of an electric mixer, combine 2 **eggs,** ½ cup **sugar,** and ¼ teaspoon grated **lemon peel.** Beat at high speed until thick and creamy, 6 to 10 minutes. Add 2 tablespoons **water** and continue beating until foamy, 1 to 2 minutes. Mix ¾ cup **all-purpose flour** with 1 teaspoon **baking powder;** add to egg mixture and beat on medium speed until well blended.

Spoon batter into a well-greased 10- or 11-inch flan (or tart) pan with a base that forms a well when pan is inverted, or into a standard tart pan. Bake in a 325° oven until the top springs back when lightly touched, 18 to 20 minutes. C in the pan on a rack for 10 minutes, th turn out of pan onto serving plate.

To serve, spoon **cherry topping** (dir tions follow) or 4 to 5 cups sweeter berries or sliced peaches into center cake. Serve with sweetened **whipp cream,** if you wish. Serves 6 to 8.

Cherry topping. Remove pits from 7 t cups **sweet cherries.** In a 2- to 3-qu pan, mix 3 cups of the cherries with cup **water.** Bring to a full boil over m dium heat, crushing fruit with a pot masher. Pour into a fine wire strainer a press to extract the juice—you sho have about 1¼ cups; discard pulp.

In the pan, blend 1 tablespoon **cornsta** with ¼ cup **sugar.** Gradually mix cherry juice until smooth. Stir over m dium-high heat until sauce boils a thickens. Add 2 tablespoons **lemon jui** Cool; stir in 4 to 5 cups pitted cherries

It's the batter that matters.

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LIGHT BATTER

¾ cup Argo or Kingsford's Corn Starch	1 tsp baking powder	½ cup water
¼ cup flour	½ tsp salt	1 egg, slightly beaten
	¼ tsp pepper	

In bowl stir together first 5 ingredients. Add water and egg; stir unti smooth. Pour 1 qt (about) corn oil into large skillet to depth of ½," filli no more than ⅓ full. Heat over medium heat to 375°F. Dip 4 cups cut-up vegetables, such as zucchini, carrots, onion and mushrooms, o 1 lb boneless, skinless chicken breasts, cut into 1" cubes, a fe at a time, into batter. (Stir batter occasionally.) Carefully ac vegetables or chicken to hot oil, a few pieces at a time. Fry 2 to 3 min, turning once, until golden brown and crisp. Drain on paper towels. Serves 4 to 6.

HERB BATTER: Follow basic recipe. Add 1 tsp dried basil leaves and 1 clove garlic, minced.

BEER BATTER: Follow basic recipe. Omit water. Add ⅓ cup cold beer.

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THE LIGHT TOUCH SO RIGHT FOR TOD

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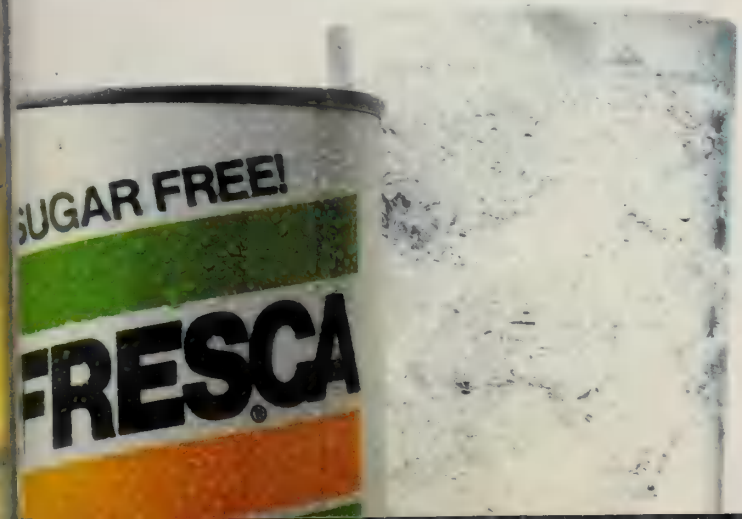

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STORE COUPON

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JULY IN YOUR GARDEN:

Fog or sun? Where you live is the key to July gardening. Almost everywhere, though, it's watering time

t's time for the Big Switch—when resi-
ents of inland valleys head for the gray
mbrella of Carmel, San Francisco, or
odega Bay, while fog-bound coastland-
rs seek the sunny rivers and parks of
entral California.

he garden can pretty well take care of
self this month. Watering is the biggest
riority, followed by feeding, weeding,
arvesting, and trimming. If you're stay-
g home and eager for more activity,
rly mornings and cool evenings are
ood times to pull out and replace plants,
heck for bugs or blights, and sow seeds
r fall planting.

you're treating powdery mildew . . .

oth inland humidity *and* marine fog can
omote powdery mildew this month.

"new" treatment is actually a cur-
ntly available fungicide with some new
ants added to its label. So if you al-
ady have a bottle of triforine (sold as
anginex) for treating your roses, you
n safely use it to treat powdery mildew
calendula, crape myrtle, dahlias,
onymus, Jerusalem thorn, lilac, phlox,
otinia, snapdragon, and zinnias as
ell. This product has also been ap-
oved for treating rusts on aster, carna-
ns, and poplars. Follow application
rections on the container.

mer shimmerer . . .
portulaca

of California's best hot-summer color
icers is portulaca, with flowers in
nering colors such as those shown
. For almost instant results, plant
ngs 6 to 8 inches apart from nursery
cks. For more economical bloom in
le as six weeks, scatter seeds in the
d or in containers. Mix the seeds
bout three-fourths sand and
le from a salt shaker for even
bution. Cover very lightly and
moist.

ts trailing, fleshy stems and leaves,
aca thrives in heat (in summer-fog
it's not as vigorous) and withstands
dry soil once established. Flowers
only in full sun.

A profuse pink charmer

Visitors to the Bay Area garden pictured at right invariably stop to admire the papery pink blossoms of the Mexican evening primrose planted by the front door. It's a Southwestern perennial that deserves greater use in California.

Soft, rosy white flowers give the plant a delicate appearance that belies its sturdy nature as a low-growing spreader adapted to heat, drought, and almost any soil. A classic choice for dry slopes and hard-to-water parking strips, it also performs beautifully in garden beds (lavender or blue flowers make striking companions). Keep it confined, though, or you'll have an invasive pink weed on your hands.

The buttercup-shaped blossoms, about 1½ inches wide, cover plants in spring and early summer and continue less profusely until almost September. (The plants shown were cut back after first bloom and photographed about six weeks later.) Gray-green foliage dies back in fall, resprouts in spring.

A few nurseries that carry select perennials include Mexican or pink evening primrose (*Oenothera berlandieri* or *O. speciosa childsii*) in this month's display. Plants can be propagated by seed, root cuttings, or divisions made in the fall.

Green Horizons, 500 Thompson Dr., Kerrville, Texas 78028, offers seeds by mail; send for free price lists.

One tarragon is not the same as another

When shopping for herbs to plant this summer (inspired, perhaps, by the article on page 120), remember that French tarragon, the culinary herb, isn't the same as Russian tarragon. If you buy a packet of tarragon seeds to plant, then you're getting the less desirable Russian variety.

Why? French tarragon (*Artemisia dracunculus*, or *A.d. sativa*) doesn't bear flowers, so it can't set seed. It's always sold as a ready-grown plant propagated by divisions or root cuttings.

Only French tarragon has the tangy, lightly licorice bite familiar to cooks. The closely-related Russian form is edible but unflavorful; some people say it tastes like grass, others pick up a kerosene-like pungence.

A third plant labeled "winter tarragon" may vie for your attention. This is actually an edible perennial marigold (*Tagetes lucida*, also called sweet-scented or anise-flavored marigold) with a distinc-

Sunset's
GARDEN GUIDE
Special information for high elevations, page 162

NORMAN A. PLATE

Mexican evening primrose *actually blooms during the day. Powdery pink flowers top foot-tall gray stems*

Sunset's GARDEN GUIDE

tive mock-tarragon taste. It's easy to grow and well worth trying.

A rotary tiller recall

If you own a two-speed stick-shift Sears or Roper rotary tiller, it may be subject to a recall recently announced by Sears, Roebuck and Co. and the manufacturer, the Roper Corporation.

The models in question were sold between 1963 and 1979 for $300 to $500. Look for any of these model numbers on the nameplate: 917, D84351 R0, D84351 R1, D84361 R0, D84361 R1, D54252 R0, D54252 R1, D44152 R0, or D44152 R1.

These tillers have a clutch-lock feature that, when locked in reverse gear, has caused some serious injuries. The manufacturer urges owners not to use the machine until they install a clutch replacement kit available free from Roper. To get one, call toll-free (800) 435-5117.

DARROW M. WA

Whitefly traps *stand amid peas in garden at left. To make them, thinly spread an insect-trapping resin over yellow-painted stakes, as above*

When whiteflies see yellow

Whitefly populations seem to soar in July. Many gardeners find they can keep the numbers reduced by setting out sticky yellow boards that attract and trap the tiny fluttery insects.

To make the traps, paint stakes or boards a bright yellow (similar to school-bus yellow) and let them dry. Or use already-colored materials such as yellow plastic or plastic laminate. Smear the yellow area with a thin coat of resinous ant-trapping substance (sold at nurseries), or use petroleum jelly or SAE 90 motor oil. Place the boards near plants whiteflie frequent: fuchsia, geranium, lantana chrysanthemum, iris, dahlia, abutilon and—in the vegetable garden—tomatoe squash, cucumbers, melons, and beans.

Experiment with size and placemen Dean Bunnell of San Jose places th skinny stakes shown here among his pe vines and foot-wide boards (not shown between tomato plants. Some gardener use even larger yellow panels. Clean o the surfaces when filled and reapply th stickem to catch successive whitefl generations.

JULY CHECK LIST: *Here is midsummer action*

☐ **Compost.** Well-tended compost piles break down quickly in warm weather. Remember to add new materials in thin layers and to wet down each addition. Keep piles evenly moist and turn them over periodically.

☐ **Feed flowers and vegetables.** Summer annuals and vegetables as well as the flowering plants you count on now—fuchsias, gardenias, hydrangeas, roses, and tuberous begonias—produce best with regular light feedings this month. Plants in frequently watered containers and hanging baskets thrive with weekly doses (or feed as you water).

☐ **Groom, prune, tie.** Trim spent blossoms from flowering plants to keep them blooming. Over-the-hill petunias, lobelia, lantana, and verbena benefit from a light, overall clipping; they'll bloom again. Train vines. Thin out berry canes. Tip-pinch leggy coleus and perennials such as chrysanthemums before they set fall blossoms.

☐ **Mulch.** A soil-covering mulch around widely spaced shrubs and newly planted annuals and vegetables reduces weeds and helps soil stay damp and cool. Earwigs and little slugs may take up residence; bait or trap to control them.

☐ **Plant for summer color.** In hot-summer areas, gazanias, geraniums, hibiscus, lantana, marguerites, and verbena can be treated like annuals. In bloom now, they're reliable hot-weather performers, adding quick color and greenery to containers and hanging baskets. Portulaca (pictured in color, page 154), zinnia and *Catharanthus roseus* thrive in bright sun; for shade, choose begonias, coleus, impatiens, lobelia, or even marigolds.

☐ **Plant vegetables.** In most areas, seeds for fall crops should be sown soon in flats. These include the cole crops (broccoli, cabbage, cauliflower), leeks, and lettuce. Summer vegetables are starting to produce yields: fill emptying spaces as needed with quick-growing beets, bush beans, lettuce, radishes, or summer squash.

☐ **Propagate.** Start seeds of herbs, biennials, and perennials now so you can set plants out in the ground this fall. Near the coast, divide bearded iris; in inland climates, wait until fall to lift them. Stem cuttings root readily now in sand or peat-perlite—an easy way to multiply geraniums, fuchsias, marguerites, and many other favorites.

☐ **Tend fruit trees.** To inhibit brown rot and foil green fruit beetles (see page 171), pick up and discard brown or rotten apricot, peach, and plum fruits. Prop fruit-laden branches with stout poles as needed.

☐ **Treat plant damagers.** Watch for tomato hornworms, petunia and geranium budworms, and green worms on beans. Try to catch them early, then hand-pick or apply controls such at BT (*Bacillus thuringiensis*) at consistent intervals. If whitefly or powdery mildew is a problem, see items in this guide.

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Dazzling reward *for patient gardener is salad of tender, pale, and delicately bittersweet Belgian endive topped with tiny pink shrimp and oil-and-vinegar dressing*

Growing your own $6-a-pound endive takes time, patience, much careful handling. It is worth all of that

At the grocery store, Belgian endive (*Cichorium intybus*), also known as witloof (meaning "white leaf") chicory, costs $6 a pound or more. The high price reflects a fairly long growing time and the need for careful handling, which make the crop expensive to grow commercially. But home gardeners can grow this delicacy fairly easily. Now is the time to start the seeds.

Native to Europe and the Orient, chicory has become naturalized throughout many parts of the United States. It has been cultivated for several hundred years for its carrot-shaped roots, which can be dried, ground, and used as an extender or substitute for coffee.

Left to its own devices, chicory produces green leaves that make an interesting, slightly bitter salad addition. If you leave enough leaves to feed the developing roots, you can force the roots as shown on opposite page in order to harvest the delicate white leaf clusters.

To grow roots large enough to force, you'll need to spade the planting bed or a row at least 15 inches deep, more if possible. Work in some well-rotted manure and plenty of compost, nitrogen-fortified ground bark, or other organic material. The soil should be in good condition so the expanding roots can move through it easily; like carrots, they f when they meet resistance.

Sow seeds thinly, leaving about 18 inc between rows. Thin seedlings to 6 inc apart. Water often, and apply a comp fertilizer in the fall. Let the plants gr for five to six months before digg them up, then follow the steps at right.

Order endive or witloof chicory se from these sources: W. Atlee Burpee C Warminster, Pa. 18974; J. A. Dem chaux Co., 827 N. Kansas Ave., Tope Kans. 66608; Epicure Seeds, Box 235 Rochester, N.Y. 14692; or Nichols G den Nursery, 1190 N. Pacific Hwy., bany, Ore. 97321.

You start seeds now . . . and here's what you do with the seedlings this winter

TERI SANDISON

. *Dig mature endive plants when weather is cool—December to January. Remove whole roots from soil and lightly brush them off (don't wash)*

2 . *Trim off green leaves (save them for salads) about 1 to 2 inches above the crown; cut root tip so remainder is 8 to 9 inches long*

3 . *Choose a box 1½ feet tall, line with a plastic bag, and fill halfway with ground fir bark, sawdust, peat moss. Push roots in up to crowns*

. *Thoroughly water growing medium with gentle spray. These roots are spaced about 2 inches apart so they don't touch each other*

5 . *Pour about 8 inches of the same growing medium over the root crowns—the blanched endive heads grow up through this medium*

6 . *Top off the box with several thicknesses of newspaper. It conserves moisture, lets in air, and excludes light so new leaves stay white*

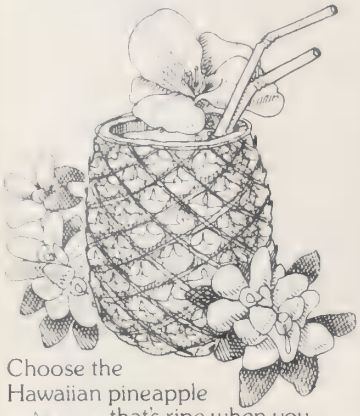
Place box containing roots in basement, garage, or other spot where temperatures remain fairly constant and cool—50° to 60°

8 . *After about three to four weeks, check roots: some endive will be usable, leave others longer to extend harvest season*

9 . *These heads grew for six weeks in dark box. Wash and trim such heads, wrap in paper towels, seal in plastic bag. They'll keep in refrigerator for 10 to 12 days*

Del Monte

The less you know about fresh pineapple, the more you need Del Monte.



Choose the Hawaiian pineapple that's ripe when you see it. And ripe when you serve it. Every time. Choose Del Monte. Ripe Now.

Create a Pineapple Potion. It's easy. First, cut off the top of the fruit.

Next, carefully separate and remove the fruit from the shell. Core and cube the pineapple.

Finally, make the potion. Puree 2 cups of the diced pineapple. Combine with 6 oz. seltzer. Add a dash of grenadine and a tbs. of lemon juice. Fortify with 4 oz. of rum. Then, pour into the empty pineapple. Garnish with a flower or slice of orange, insert two straws and you're ready to get fresh with someone you like.

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Tracking down abutilons . . . where to find plants and seeds

Acquiring abutilons often takes some detective work. Even the ones shown and described on pages 68 and 69—most common of these big flowering shrubs—are sold only in certain nurseries.

Here we list some of the best nurseries for abutilons in Washington, Oregon, and California, and five mail-order dealers of plants and seeds.

Seventeen retail nurseries, from Seattle to San Diego

WASHINGTON

Woodinville. Molbak's Greenhouse, 13625 N.E. 175th Street. Various hybrids, including yellow 'Marianne', plain-leafed and variegated *A. megapotamicum*.

Seattle. Swanson's Nursery, 9701 15th Street N.W. Apricot-flowered hybrid.

OREGON

Portland. Kasch's Garden Center, 2500 S.E. Tacoma Street. Hybrids in various colors.

NORTHERN CALIFORNIA

Occidental. Western Hills Rare Plant Nursery, 16250 Coleman Valley Road. Hybrids in various colors plus 'Marianne', pink-and-orchid 'Vie en Rose'.

Sacramento. Capital Nursery, 4700 Freeport Boulevard. Hybrids in various colors.

Sacramento. Fountain Square Nursery, 7115 Greenback Lane, Citrus Heights. Hybrids in various colors.

Berkeley. Berkeley Horticultural Nursery, 1310 McGee Avenue. Hybrids in various colors, including pink-and-coral 'Victory'; *A. megapotamicum;* blue-flowered *A. suntense*.

Half Moon Bay. Half Moon Bay Nursery, Highway 92. Hybrids in various colors.

Los Gatos. Carman's Nursery, 16201 Mozart Avenue. Hybrids in various colors, 'Vie en Rose'.

Los Gatos John's Nursery, 16751 Farley Road. Hybrids in various colors.

SOUTHERN CALIFORNIA

Santa Barbara. Turk Hessellund Nursery, 1255 Coast Village Road, Montecito. Hybrids in various colors, including pink and red forms trained as standards; *A. megapotamicum; A. pictum* 'Thompsonii.'

Santa Monica. Merrihew Nursery, 1426 Montana Avenue. Hybrids in various colors, including pink form trained as standard.

Pasadena. Bellefontaine Nursery, 838 S. Fair Oaks Avenue. Hybrids in various colors.

Pasadena. Burkard Nurseries, 690 N. Orange Grove Boulevard. Hybrids in various colors; *A. megapotamicum*.

San Marino. Mission Nursery, 2510 Mission Street. Numerous hybrids not sold elsewhere, including many created by leading California hybridizer John Catlin.

Corona del Mar. Roger's Gardens, 2301 San Joaquin Hills Road. Hybrids in various colors; *A. pictum* 'Thompsonii'.

San Diego. Walter Andersen Nursery, 3642 Enterprise Street. Hybrids in various colors.

Mail-order nurseries . . . seeds and pla

Logee's Greenhouses, 55 North Street, Danielson, Conn. 06239. Catalog $2.50. Plants: hybrids in various colors including 'Moon Chimes'; variegated form of *A. megapotamicum; A. pictum* varieties 'Apricot Belle', 'Crimson Belle', 'Old Rose Belle', 'Satin Pink Belle', 'Silver Belle', 'Souvenir de Bonn', 'Sugar Plum', 'Tangerine Belle', 'Thompsonii', 'Yellow Belle'.

Geo. W. Park Seed Co., Box 31, Greenwood, S.C. 29647. Free catalog. Hybrid seeds.

R. H. Shumway, Box 777, Rockford, Ill. 61105. Free catalog. Hybrid seeds.

Sunnybrook Farms Nursery, 9448 Mayfie Road, Chesterland, Ohio 44026. Catalog $ Plants: variegated form of *A. megapotamicum; A. pictum* varieties 'Apricot Belle', 'Crimson Belle', 'Old Rose Belle', 'Satin Pink Belle', 'Silver Belle', 'Souvenir de Bonn', 'Yellow Belle', 'Thompsonii'.

Thompson & Morgan, Box 100, Farmingdale, N.J. 07727. Free catalog. Seeds of Bella series of hybrids; a mixture of large-flowered hybrids: lilac-flowered *A ochsenii;* lavender-flowered *Corynabutilo vitifolium*, a cold-hardy species.

Here are some other ways to acqui abutilons:

Public gardens. When you view them an arboretum or botanic garden, ask the institution has or will have sm plants for sale.

Friends and neighbors. If you run acro an abutilon in someone else's garde ask for cuttings; they are easy to ro From branch tips, take cuttings about inches long and strip leaves off the b tom half of each. Root in damp sa potting mix, or perlite. Rooted cuttin should be ready to pot up about t months later. The best seasons to ta cuttings are spring and summer.

Grow from seeds. Our list of mail-ord dealers includes three who sell abutil seeds. You can sow seeds anytime: co lightly with the seed medium and keep about 75° until seeds germinate in two three weeks. Seedlings will flower in months or less.

If you grow abutilons from seed, aware that hybrids do not come true the seedlings will vary in flower colo plant size, and vigor. Seeds of a spec will produce identical plants, however.

Prod your favorite nursery. This is o way gardeners gain better access to pla they want. Tell the manager or owner a nursery where you are a frequent c tomer that you are interested in abu lons and would like him or her to st stocking them.

Remember, you're among friends.
SMOKEY
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It's garden appreciating time and it is turnip time

DON NORMA

Sunset's HIGH-ELEVATION GARDEN GUIDE

Short growing season, cold winters

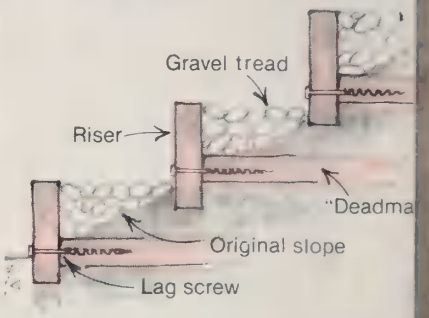
This is a month to coast in mountain gardens, taking time to relax in the sun as summer vegetables and flowering plants grow fast. Important tasks are to plant vegetables for fall harvest and to water and fertilize.

Safer ways to handle leaf miners and earwigs

This month is also the time to be alert for two midsummer insects that attack vegetables: leaf miners and earwigs.

Leaf miners are too tiny to see. They tunnel into the leaves, making wiggly little lines in them. Watch for their damage on leafy crops like chard and spinach. This year, pick off and destroy damaged foliage. Next year, prevent their appearance by dusting with rotenone every 10 days beginning May 1.

Earwigs, dark brown insects with small "pinchers" on their tails, are especially damaging to corn because they hide under the surface of husks where you can't see them until harvest. Because they breed in plant debris and in damp places, you can minimize their damage next y by cleaning up the garden this fall.



Solid stairway with gravel or rock

A dramatic set of handsome steps turn a humdrum garden slope into invitation to explore. In these pho

JULY CHECK LIST: *Much to do in Intermountain gardens*

☐ **Divide perennials.** If anchusa, arabis, bleeding heart, candytuft, and coral bells are crowded, lift and divide them after bloom.

☐ **Fertilize annual flowers.** Most of them will grow even better if you give them a feeding with a complete fertilizer this month. Water in thoroughly after feeding.

☐ **Fertilize vegetables.** Perennials such as asparagus and rhubarb will benefit from a feeding with a high-nitrogen food this month. With other vegetables, use a soluble complete fertilizer in irrigation water, or place a dressing of dry fertilizer in a trench alongside each row.

☐ **Mulch.** As organic mulches break down, add new material to save water and slow weed growth. Good choices for mulching material include compost, grass clippings (dried), newsprint, pine needles, straw, and wood chips or shavings. Around heat-loving vegetables, you can use sheets of black plastic.

☐ **Plant fall vegetables.** For harvest in late summer or fall, plant beets, bush beans, carrots, corn (not in Zone 1), green onions, kale, lettuce, mustard, radishes, Swiss chard, and turnips. Plant winter squash among spinach; it will cover when you harvest the spinach.

☐ **Prune cane berries.** After harvest, remove old boysenberry and raspberry canes as they begin to die. This encourages good air circulation to help prevent mildew.

☐ **Remove faded flowers.** Pick blooms when they get past their peak to encourage production of new buds on annuals, ground covers, and perennials. (Pay special attention to roses.)

☐ **Stake tall plants.** If you didn't do it earlier, stake beans, delphiniums, peas, peonies, and tomatoes against high winds. Drive stakes at least 1 foot into the ground and tie plants securely.

☐ **Tend fruit trees.** Thin the fruit on trees with heavy set; you'll get bigger fruit. Spread 2 to 3 pounds of high-nitrogen fertilizer at the drip line of apple, apricot, cherry, peach, and plum trees; water in thoroughly.

☐ **Water.** Keep up your regular deep-watering program for ground covers, lawns, shrubs, trees. Water only when plants need it.

garden steps: *Robert McLeavy lden, Colorado, used railroad ties iver rock (left). Art Lamey built his e) in Billings, Montana, of 2 by 8's ed to boards buried beneath the gravel*

aphs, we show two mountain gardens here owner-designed stairways add in-est to slopes.

build a secure stairway with gravel ps, wooden risers must be anchored to earth. You can do this by bolting the ers to heavy stakes driven into the soil. you can use lag screws to anchor risers the ends of "deadmen" (timbers set in nches running back from the front of steps, then buried, as diagrammed eft).

turnip time

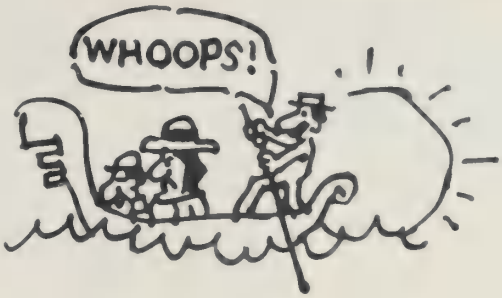
perienced vegetable gardeners sow nip seeds about July 25. Sown earlier, nips form top growth during long days the expense of root growth. Seeds n in late July also escape damage m root maggots: the maggots have npleted their part of the life cycle ore the roots form.

ompromise between difficult d lettuce, bland leaf lettuce

untain gardeners usually face a ice between growing head lettuce, ch goes to seed easily, and leaf let-, which grows more easily but often little flavor.

er lettuce is a happy compromise, ticularly in mountain climates where litions vary from year to year: A l variety is 'Butter King', which goes eed very slowly and doesn't taste bit-as does much lettuce grown where e is little rainfall.

l is available from Geo. W. Park Seed Box 31, Greenwood, S.C. 29647 log free). To get best performance butter lettuce, mulch to keep roots and conserve moisture. □



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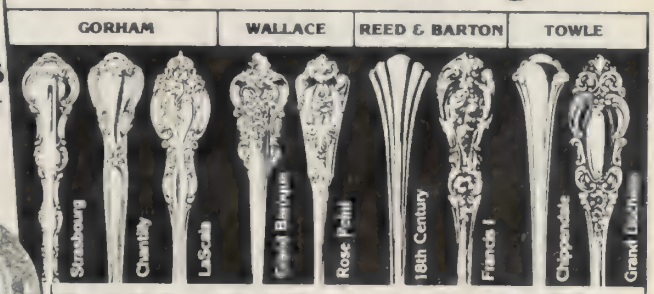

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Lenox "Lace Point"	$ 64.00
Oxford "Holyoke"	$ 76.00
Royal Doulton "Carlyle"	$109.95
Royal Doulton "Harlow"	$ 81.00
Minton "Jasmine"	$ 99.95
Minton "Grasmere"	$ 99.95
Wedgwood "Runnymede Dark Blue"	$129.95
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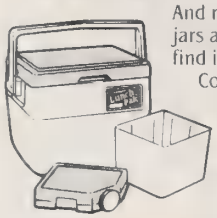

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Stanford. Through August 15. An e hibit on California botany, with materi from Stanford University libraries, Sta ford University botanical collections, a the Dudley Herbarium. Place: Lurie R tunda of Green Library. For directio call (415) 497-4054. Hours: 8 to 6 Mo day through Thursday; 8 to 5 Friday; to 5 Saturday. Free.

Saratoga. July events at Saso Herb Ga dens, 14625 Fruitvale Ave. Reservatio are necessary; telephone (408) 867-03

July 4. Herb lecture tour of the garde and a tea-tasting session. Hours: 1:30 4. Fee: $5. Bring a cup.

July 10 and 17. Two-session worksh on culture and use of herbs. Hours: 9: to 3 both dates. Fee: $30. Bring a c and brown bag lunch.

July 24. Workshop on creating a wre of dried flowers and herbs from field a garden. Hours: 10 to 2. Fee: $25 (cludes supplies). Bring a cup and bro bag lunch.

Sacramento. July 10 and 11. Annu flower show presented by the Sac mento Gladiolus Society. Place: I Gard Shepard Garden and Arts Cent 3330 McKinley Blvd. Hours: 2 to 5 S urday; 10 to 5 Sunday. Free.

San Francisco. July 10 through 18. T San Francisco Home and Garden Sho Place: Moscone Center. Hours: 2 to Monday through Thursday; 2 to 11 F day; noon to 11 Saturday; noon to 9 S day. Admission: $4.50; under 6, $3.50

Capitola. July 17 and 18. Fuchsia sh and plant sale by the Aptos Garden Cl Place: Capitola Mall, 1855 41st A Hours: 10 to 5:30 Saturday; noon to Sunday. Free.

San Francisco. July 24. Fuchsia blo show and plant sale by the San Francis Branch of the American Fuchsia Socie Place: Hall of Flowers, Golden G Park, Ninth Ave. and Lincoln W Hours: 10 to 3. Free.

Daly City. July 24 and 25. Annual gonia show and plant sale by the S Francisco Branch of the American gonia Society. Place: Serramonte Sh ping Mall. Hours: 10 to 6 Saturd 11:30 to 5:30 Sunday. Free.

Mountain View. July 24 and 25. Fuch show by the Santa Clara Branch of t American Fuchsia Society. Place: Ma field Mall, San Antonio Rd. and Centr

xpressway. Hours: 10 to 5 Saturday; ɔon to 5 Sunday. Free

nta Rosa. July 26 through August 7. lower extravaganza at Sonoma County air. Place: Hall of Flowers, County airgrounds. Hours: 10 to 10. Admission fair: $3; ages 7 through 12, $1.

oss. July 31. Fuchsia festival presented the Marin County Branch of the merican Fuchsia Society. Place: Marin rt and Garden Center, Sir Francis rake Blvd. Hours: 11 to 4:30. Free.

isalia. July 31. Rhizome auction pre-nted by Region 14 of the American is Society, hosted by the Sequoia Iris ɔciety. Place: Holiday Inn on Airport rive at the intersection of state high-ays 99 and 198. Hours: 1 P.M. until all s are sold. Admission is free.

n Leandro. July 31 and August 1. San ɔrenzo Fuchsia Society show. Place: ayfair Shopping Center, E. 14th St. d 155th Ave. Hours: 10 to 5 Saturday; ɔon to 5 Sunday. Free.

OLORADO

enver. For July classes and field trips fered by the Denver Botanic Gardens, ephone (303) 575-2548.

enver. July 22. Terrace and garden ır sponsored by the Denver Botanic ırdens Guild. Hours: 10 to 5:30. Tick-($5) available at the gift shop of the ɛnver Botanic Gardens, 909 York St., ɔm 10 to 4 daily.

EVADA

s Vegas. Iris rhizome sales by the ıthern Nevada Iris Society at three n Lobel stores. Hours at all locations: ɔ 6 Saturday; 9 to 5:30 Sundays.

y 10 and 11. Von Lobel store, 2655 ryland Parkway.

y 17 and 18. Von Lobel store, 440 E. ɔpicana Ave.

y 24 and 25. Von Lobel store, 4510 adows Lane.

AH

Lake City. July 7. Tree walk and with W. Richard Hildreth, director the State Arboretum of Utah. Sub-: maples and birches for Utah. Meet ront of the Natural History Museum, versity of Utah, at 7 P.M. for the ɔur event. Free.

Lake City. July 8. Shortened version ıe July 7 event—a "brown bag tour" n noon to 1 P.M. Meet at the Natural ory Museum on campus. Free.

Lake City. Iris auctions at the Utah den Clubs Activity Center, Sugar ıse Park, 1602 E. 2100 South. Free.

17. By the Utah Iris Society, from 4 P.M.

31. By the Utah Branch, American Society, from 3 to 5:30 P.M. □

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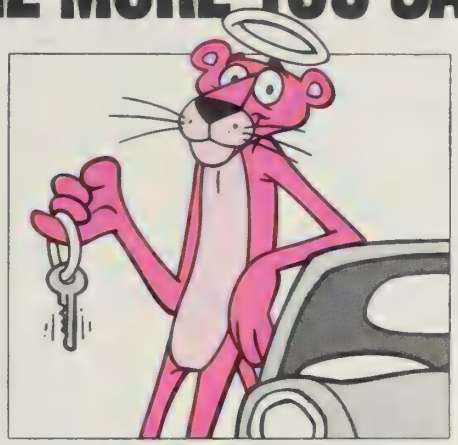

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WHILE OTHERS STAND STILL

Floor-level deck *off master bedroom, built of redwood 2 by 3's on edge, measures 14 by 14 feet. It steps down to a brick patio with built-in table and benches. Trellis of 2 by 3's and 2 by 6's on 4-by-4 posts floats over deck and patio, connects at far end to house*

STEVEN SCOTT JACOBY

Crew member *prepares area for sod. Soil will be banked up behind boulders and heavily planted to screen spa from neighbors*

What a dozen volunteers can do in one weekend

Wall of *broken concrete curves around firepit at one end. Behind it, soil is mounded up 6 inches higher, contoured to property-line fence now well hidden by band of foliage*

NORMAN A. PLATE

small garden in Chatsworth, Cali- a is noteworthy on two counts. One low cost—$3,500 in 1977. The is the speed at which it was all put her: only two days from the bare- nd stage. A contractor's bid for fur- ng and installing the plants, deck, pa would have been around $12,- the job would have taken longer.

osts broke down into about $1,000 for lumber and for plant and land- materials and $1,500 for the spa s equipment.

stall the garden, owners Karen and n Scott Jacoby rounded up 10 lly volunteers—and paid an electri- nd two carpenters to lead the will- ut inexperienced crew. Landscape er Nick Williams also pitched in work, supervision, and enthusiam. e end of the second day there was bration and spa christening.

arden is roughly 60 feet wide and Neighbors are close by, as you can the photograph at far left, so plant- r privacy was an important part of heme. A thick band of shrubs and effectively screens out nearby s and fences. Taller plants (two een ash trees, purple-leaf plums, een pears) in the foliage band on est side also give relief from the ternoon sun. □

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In round urns, *¼-inch tubing branches with a T fitting to place two emitters on opposite sides of the pot*

Rectangular planter *contains an arm of ⅜-inch tubing with four emitters (½-gallon-per-hour flow rate). Punching holes for emitters was last step in assembly*

Another solution: *at pool's edge, ¼-inch tubing follows an expansion joint to reach small freestanding pot of daisies*

DARROW M. W

Invisible plumbing *waters poolside containers. Dashes show drip tubing's path under the deck and up holes in center of cement planters and pedestals*

Where's the drip? Hidden under the deck, in the containers

Taking advantage of decking and expansion joints around his pool, landscape designer John Bennett of Fairfax, California, devised an invisible drip-watering system for his containers.

The heavy concrete containers are relatively permanent fixtures in a lushly planted garden. During the summer, they dry out rapidly on the hot poolside terrace and need at least daily watering.

An automatic drip system was a logical solution to watering chores, but outlets plugged externally into the containers would have been visible from all sides of the freestanding pots. Instead, Bennett ran the lines internally—through the pots' drainage holes.

Skinny ¼- and ⅜-inch tubing was easy to route to the planters from ½-in main lines hidden from view—in nea planting beds or under decks like the shown above. Slack in the line under decking allows pots to be moved sweeping the deck. Quarter-and ⅜-in fittings make the tight turns and let li branch inside the pots.

The containers pictured above are fai large; the urns are 12 inches wide the low planter is a foot wide and 2 feet long. To distribute water evenly side the pots, they're fitted with m than one emitter apiece, laid out in configurations shown at left.

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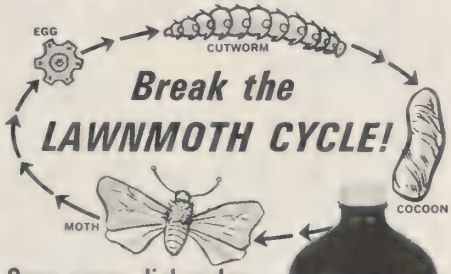

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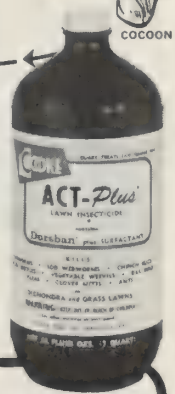

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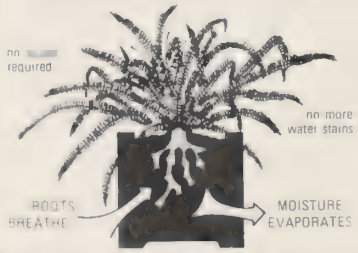

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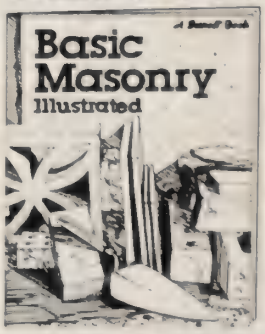

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sidents of Arizona and New Mexico years, the beetles have recently ex- ded their range into California. Do green fruit beetles (also called peach tles) do any harm? Although they c as if they could demolish any nts, they generally confine their din- to fruit that has already fallen. Some their favorites include overripe ches, apricots, figs, nectarines, pears, apples. They also munch on toma- and cactus fruit.

en they breed in compost piles, where may spot their rather unappealing ae (large white grubs about 2 inches g). They are also often found in horse als. The larvae burrow into the ind to complete their life cycle, and may notice their holes when you some compost away. They won't n the compost, and skunks consider grubs a delicacy.

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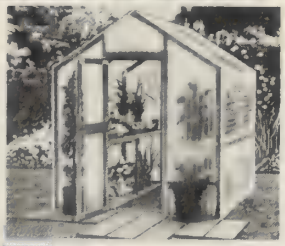

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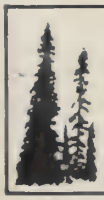

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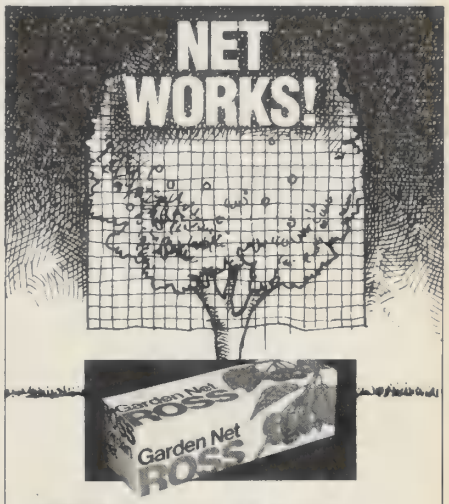

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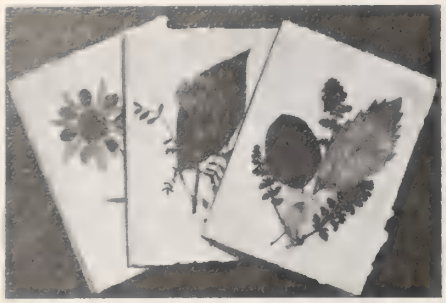

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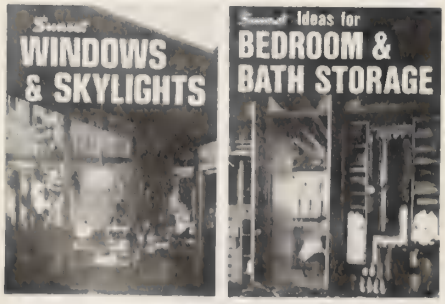

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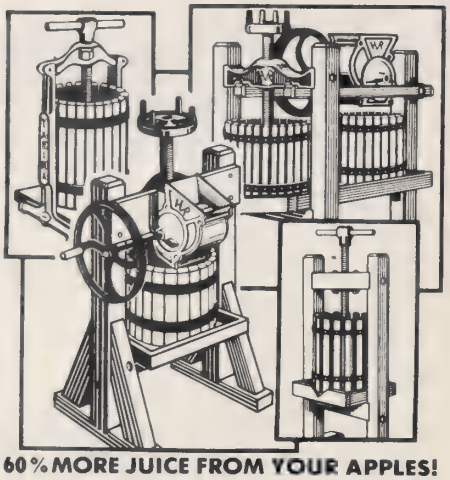

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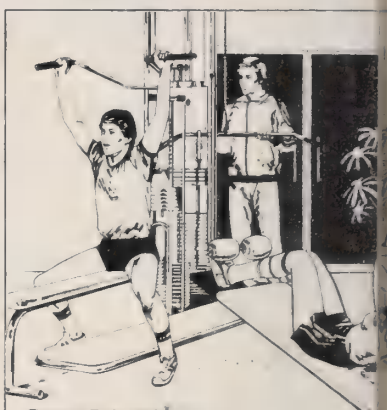

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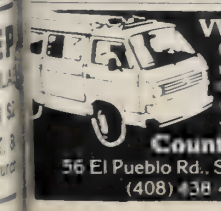

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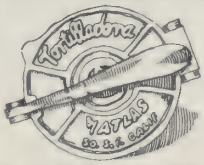

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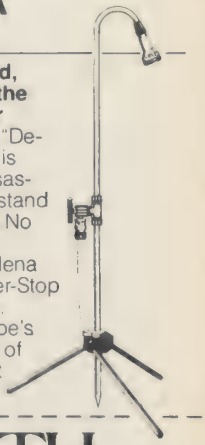

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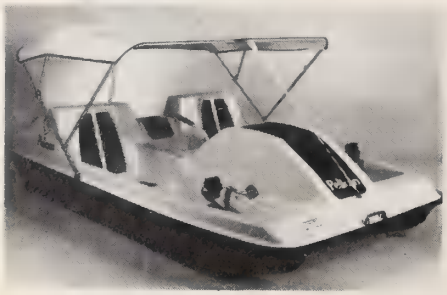

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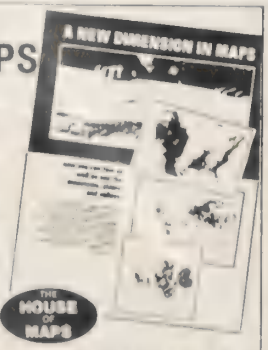

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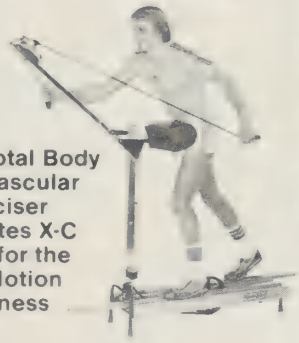

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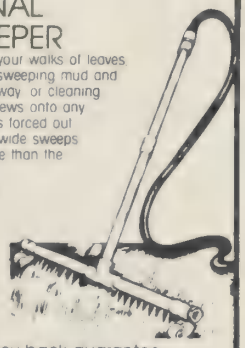

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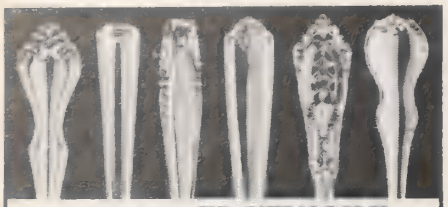

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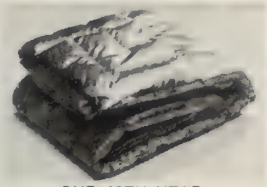

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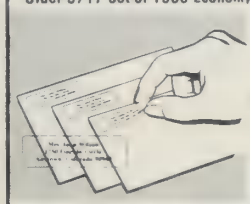

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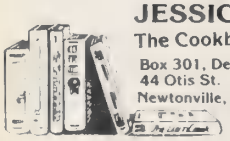

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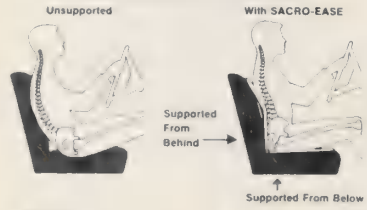

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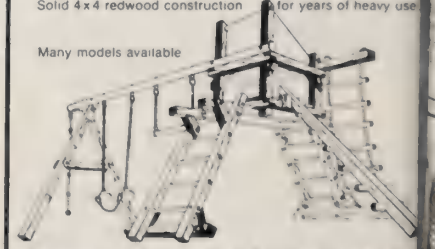

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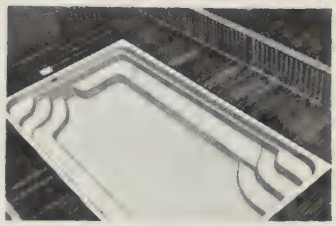

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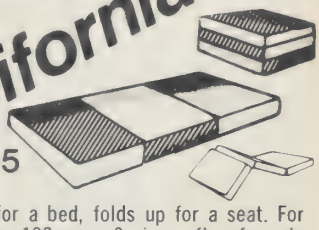

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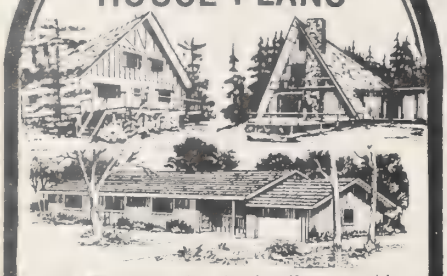

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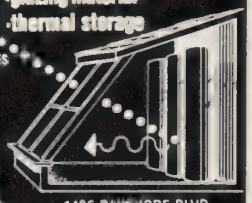

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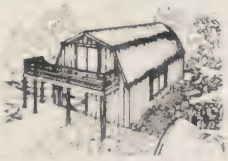

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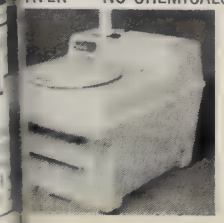

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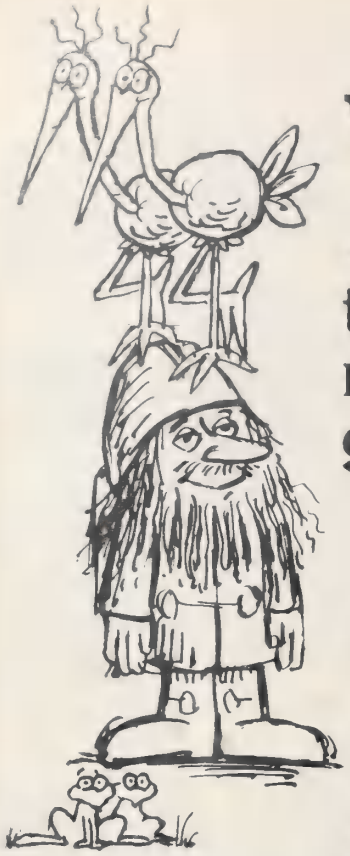

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Heavy-duty *containers hold fast-growin bamboo, rice paper plant, and rushes. They screen a neighboring house*

Rambunctiousne put to work

All of the plants in the big wooden b shown above are a little rambunctio they can cause trouble growing in ground.

Both the tall-growing golden ban (*Phyllostachys aurea*) in the backgr and the very short dwarf bamboo (*pygmaea*)—not visible—are aggre spreaders. The big-leafed rice p plant (*Tetrapanax papyriferus*) do spread much but is often hard to ge of, since it resprouts from deep r The grass-like plants, short umb plant (*Cyperus alternifolius*) and tal pyrus (*Cyperus papyrus*), also grow

But fast growers are what the own this garden in Manhattan Beach, fornia, wanted for screening in his 8 side yard. He also likes their lush t cal look, and the boxes contain the they won't get too big.

The three heavy-duty planters are e feet wide, 6 feet long, and 2 feet They're made mainly of a framewo routed 4-by-4 fence posts with 1 fencing in their slots. A mixture of den soil and organic soil amend provides the rich, moisture-holding the plants all like.

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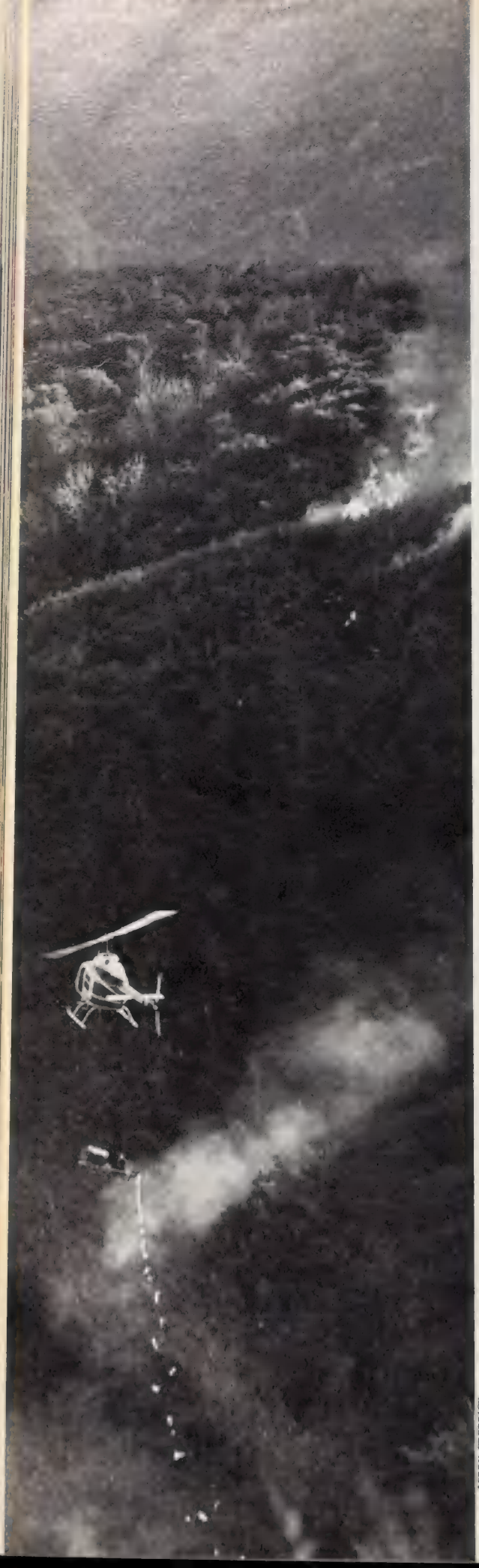

JERRY FREDRICK

Fighting fire with fire

If living in proximity to nature counts among the West's great blessi it brings with it certain hazards. This time of year, as temperatures and days between rain stretch to weeks and months, one of the most f ful of these is fire. But there are reasons for hope.

As last year's disastrous Atlas Peak Fire in the Napa Valley and Ro Lake fires near Klamath Falls, Oregon, showed, the threat exists throu out the West. But nowhere is it more acute than in Southern Califor Even a partial list of losses makes sobering reading: 1970—Laguna F San Diego County, 176,000 acres burned, 382 homes lost; 1978—Ka Fire, Agoura-Malibu, 25,385 acres burned, 230 homes lost; 198 Panorama Fire, San Bernardino, 25,600 acres burned, 284 homes los

This vulnerability comes because a great many Southern Californ live amid plant communities—chaparral and coastal sage scrub—p to fire. Indeed, they require fire: periodic burning clears aging and d plants and stimulates the sprouting and seed germination of new pl And our attempts at total fire suppression may have inadvertently c pounded the hazards, allowing so much dead brush to accumulate when it does catch fire it burns with unprecedented ferocity.

Increasingly, fire is being treated as an inevitable part of nature— as a useful tool. One technique, prescribed burning, uses fire to fight Small blazes, set when the weather is humid and windless enoug discourage too-rapid spread of flames, are allowed to burn until reach natural or manmade barriers. The hope is that creating a mo of small burns, such as might occur in nature, will clear dead fuel promote younger growth less likely to burn uncontrollably.

Some of this research has been done on the site of the 1970 Laguna now the Laguna-Morena Demonstration Area, run by the U.S. F Service with other government agencies. (There's a sister prog Grindstone, in Glenn County.) The techniques fine-tuned here are b applied successfully even in urban regions. Angeles National Fores Los Angeles' back yard, used prescribed burning to clear 4,000 acres year; Los Angeles County burned 2,000 acres, some of it in th settled portions of the Santa Monicas.

Other burn sites are private. California's new Chaparral Manager Program allows landowners to request state-conducted prescribed b ing on their property; the state may pay up to 90 percent of the (Interested landowners can call or write to the California Departme Forestry, 1416 Ninth St., Sacramento 95814; 916/322-0165.)

Nor is the new attitude towards fire limited to California. Presc burning is being conducted by Nevada, Colorado, and other We states, and in some national parks.

Prescribed burning is no cure-all. Many of us must still prepar possible forest and grass fires nearby. From our 1962 analysis, *Les learned from the Bel Air burn,* to our 1981 report on fire-break gar *Sunset* has helped with such preparation. Homeowners in suscep areas can build fire-resistant roofs, landscape with low, slow-to- plants, and push for green belts and other fire-conscious zoning.

The threat of wildfire can never be eliminated, but much can be— is being—done to let us breathe easier about it.

WINDOW ON THE WEST: *The helitorch*

The newest piece of fire-management technology is the helitorch, used in prescribed burning. The trail of jelled gasoline ignites slopes that are difficult to reach by land, helping to make prescribed burning cheaper than more traditional fire management methods.
The scene here is in the Santa Monica Mountains, west of Los Angeles.

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½ cup sliced celery
½ cup chopped walnuts or pecans
3 California Avocados, halved, pitted and peeled
lettuce leaves

Creamy Sweet 'n Sour Dressin

½ cup Mayonnaise
2 Tbs. white vinegar
4 tsp. sugar
¼ tsp. garlic salt

Place ham into large mixing bowl. Add apples, celery and nuts. In small mixing bowl make dressing by stirring together mayonnaise, vinegar, sugar, and garlic salt. Fi avocado halves equally with ha mixture, place each on lettuce lined plate and top with dressin Makes 6 servings.

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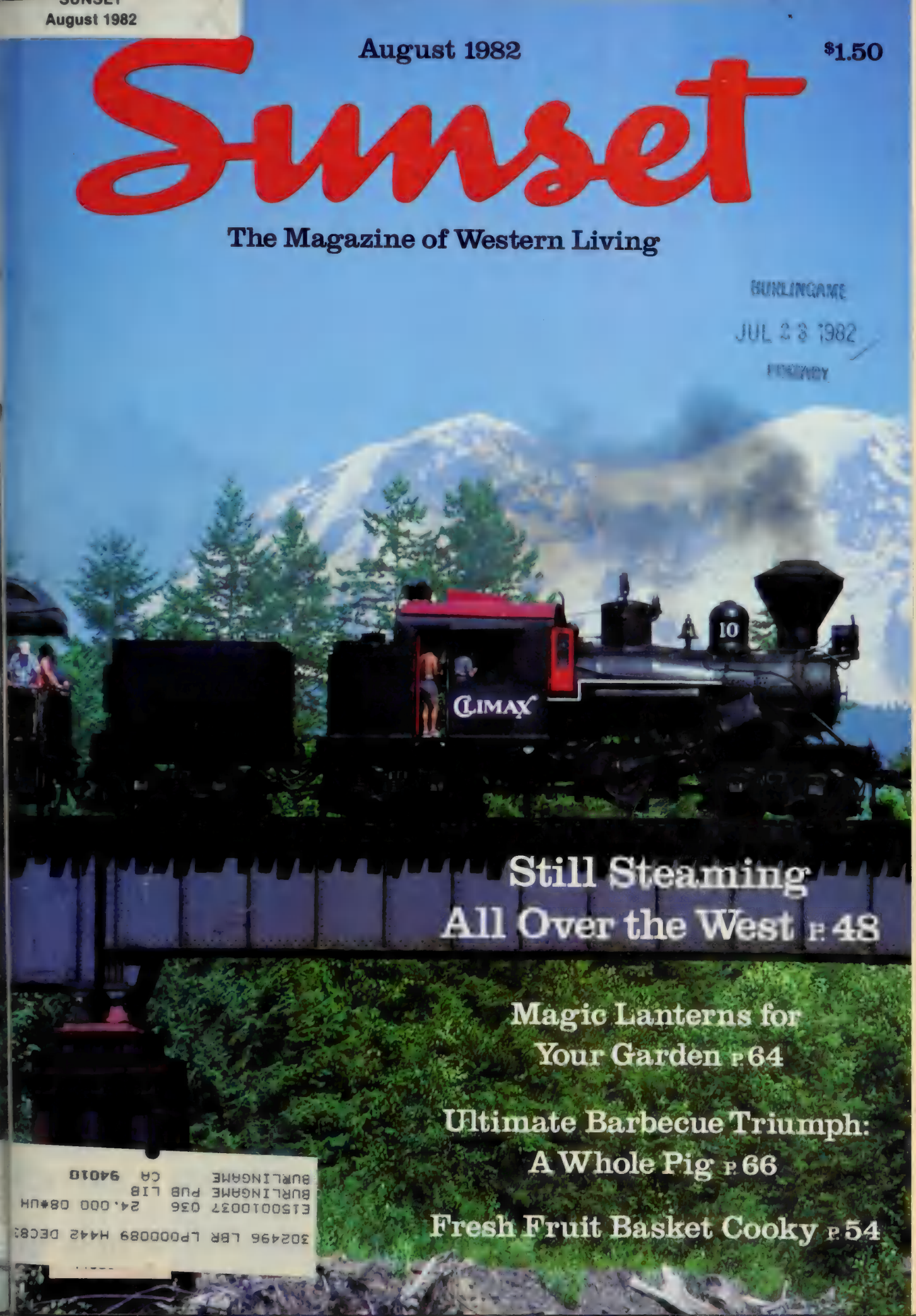

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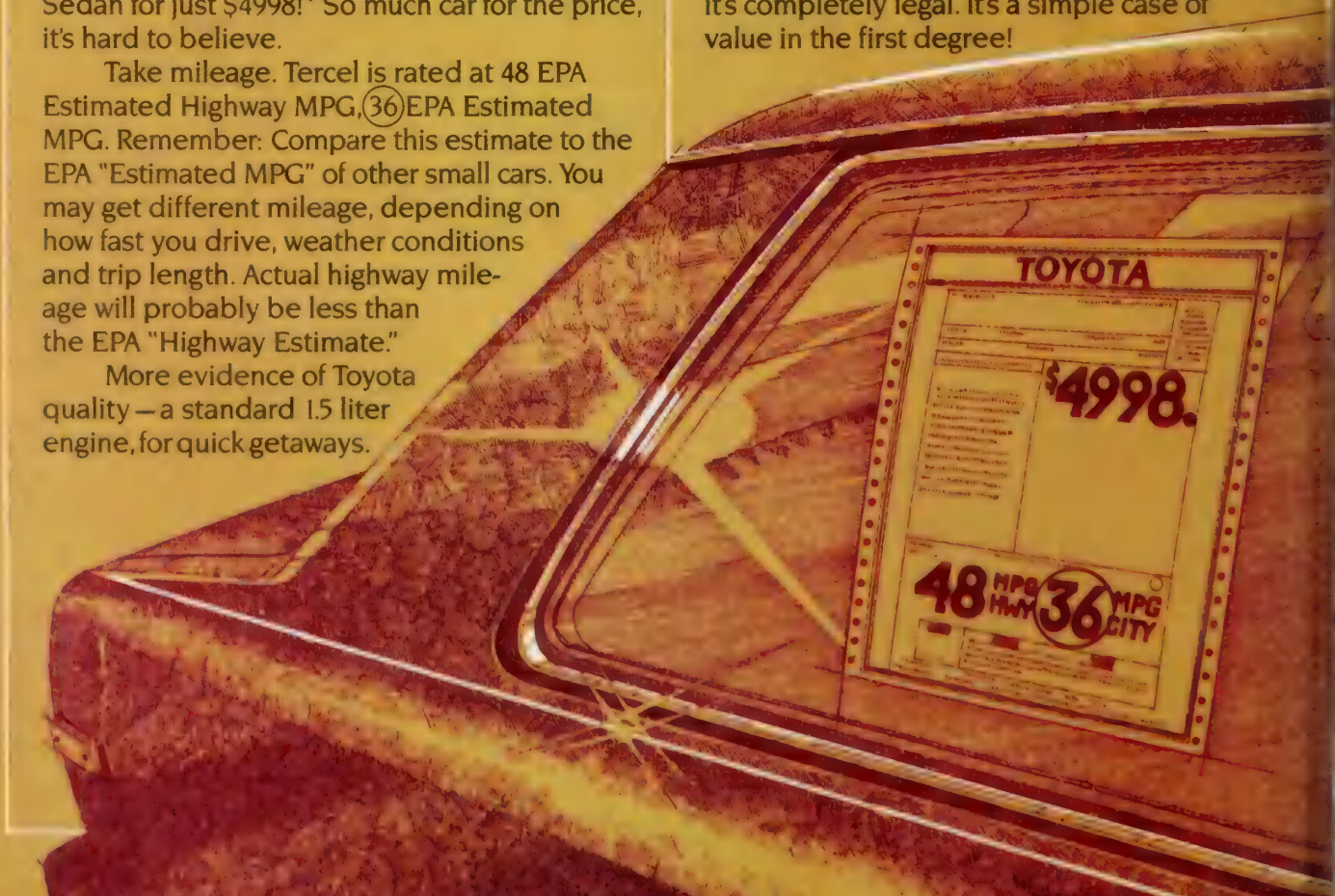

Sunset* The Magazine of Western Living*

THE PACIFIC MONTHLY *

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The Cover Story

Smoking across a bridge in full, glorious view of Washington's Mount Rainier, this old Climax locomotive pulls passengers on one of the West's last steam train rides. Other trains are listed in the article beginning on page 48. Photograph by Larry Bullis

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Picnickers *on Alameda beach can look across Bay to San Francisco skyline. Shallow, almost waveless water is safe for young swimmers under parental supervision*

ation Sandpour hits the beach at Alameda

patient snail nibbling at a lettuce o had the tides eaten away the beach at Alameda's Robert W. Memorial State Beach. Since its uction over San Francisco Bay ts in 1955, the beach has slowly . Then, last winter, storm-lashed tore out big chunks, eating back roadway.

Operation Sandpour" has replaced than 170,000 cubic yards of the gritty stuff, and a broad apron of sand glistens along 2½ miles of shoreline. The $2.5-million project was funded largely by monies received by the state from offshore oil leases.

It may be the best swimming beach on San Francisco Bay, with a long, shallow dropoff into fairly sheltered waters. Water quality here is tested weekly (one engineer says it's 10 times cleaner now than in the late '60s). In these shallows, August water temperatures usually average a mild 65°.

The 15-acre greensward skirting the beach is popular with barbecuers and kite fliers. There's a 20-station exercise course here, and soon a short bike path will run along Shoreline Drive from the park's north end to the Elsie B. Roemer Bird Sanctuary at the south end.

Now through November, you can stop in at the Crab Cove Visitor Center, a small

Pig roasting and reroasting

Page proof in hand, *food editor Lebbert watches as nonjournalists test her directions*

"How," asked our readers, "do you barbecue a whole pig?" As guests at several pig-barbecuing parties, *Sunset* food editors thought that spit-roasting was the way to go. To make sure, staff editor Jean Lebbert began roasting pigs, ranging in weight from 100 to 150 pounds.

The first fell off a rental spit and into the fire. Pigs two, three, and four stayed on. For the fifth and final pig, Lebbert turned to independent testers. Would the Decker family, working from page proofs of her proposed roasting recipe, succeed in their own yard? They did—deliciously.

If you'd like to repeat the success, turn to page 66. □

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and overlooking sparkling wa
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mind yourself that "the play's

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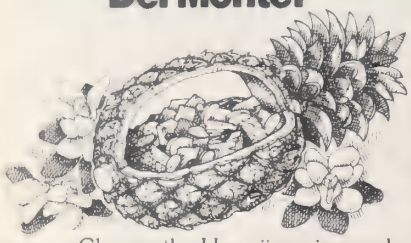

Choose the Hawaiian pineapple that's ripe when you see it. And ripe when you serve it. Choose Del Monte. Ripe now.

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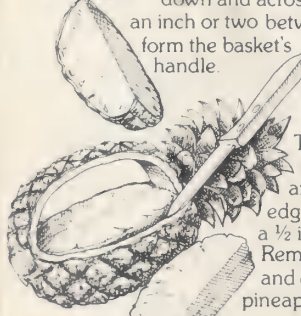
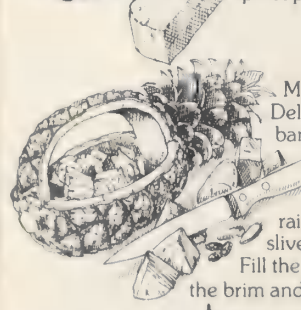


Then, carefully cut around the edges to leave a ½ inch shell. Remove, core and cube the pineapple inside.



Mix with fresh Del Monte banana and papaya. Add some raisins and slivered almonds. Fill the basket to the brim and serve.

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This 166-page paperback emphasizes the unexpected, the imaginative, and the offbeat, while keeping an eye on costs and parents' interests. Besides Denver, locations of suggested visits are in Boulder, Golden, and Colorado Springs. The book tells where to find dinosaur tracks, dairy farms, a ghost town, pet shows, children's theaters, and more. Look for it in Denver-area bookstores, or order by mail from the publisher.

Heritage Canyon isn't open

The new tri-cultural Heritage Canyon in New Mexico's Red Rock State Park (July *Sunset*, page 48) has postponed opening due to fiscal problems. There'll be no guides or demonstrations until next summer at the earliest.

Islamic art in San Francisco and Sacramento through August

Two shows this month celebrate the artistic heritage of Islamic peoples.

In San Francisco, the *Heritage of Islam,* which started July 2, runs through September 26 at the California Academy of Sciences in Golden Gate Park. It's an impressive show of intricately woven rugs, colorful manuscripts, gleaming astronomy instruments, and more. The 250 objects, dating from the 17th century to the present, come from some 40 countries from Indonesia to Turkey. The Academy of Sciences is open 10 to 7:30 daily; ad-

Bronze astrolabe *from 1519 served a early navigation aid; several are on view in two Islamic art shows*

mission is $2 plus $1 exhibit fee.

In Sacramento, another exhibiti cuses on a thinner slice of Islam tory: *The Renaissance of Islam: T of the Mamluks,* which opened J and runs through September 12 Crocker Art Museum. Organized Smithsonian Institution, the show the era from A.D. 1250 to 1517 in Syria, and Palestine—areas whe Mamluk empire flourished. Tap gold jewelry, and delicate gla show the flowering of Islamic art.

The museum, at 216 O Street, is to 10 Tuesday, 10 to 5 Wed through Sunday; admission is $3.

For travel planners, an August 1982 check list

RV accommodations at World's Fair. Ten miles from the airport in Knoxville, Tennessee, 600 recreational vehicles have been installed for visitors to the fair May 1 through October 31. Prices depend on number of children and adults in one vehicle (up to six). For example, two adults and two children pay $264 for two nights, including fair tickets and airport transfer. Barbecue grills and food service are in the RV village. All-day shuttle bus ticket for 10-mile ride to and from the fair costs $5. Book through your travel agent or with Arthur Frommer Holidays at (800) 221-9688.

Horse trekking in Ireland. For six or seven days, ride English-style on the rural roads, mountain trails, or beaches of Connemara or Dingle Peninsula. Departures of small escorted groups are almost weekly to mid-October. (Buses ride from Shannon airport to starting points.) Cost of $565 to $646 includes meals and lodging at guest houses or hotels. Write to Hamilton Travel, 422 Madison Ave., New York 10017.

Learn Spanish cooking in Spain. The Madrid cooking school Alambique now offers courses in English. A week's program costs $950 for classes, a stay in five-star hotel across from the Prado, student-cooked luncheons, private salon fashion show, and other special events. Starting dates are September 12, Octo 3, November 7, and December 5. W to Marketing Ahead, 515 Madison A New York 10022; or call (212) 759-51

Australian train. To cover the 2, miles from Sydney to Perth, consider ing the air-conditioned Indian-Pac train. The 65-hour ride costs about $ first class (private toilet) or $344 ec omy for three nights' berth, meals, t Book through your travel agent.

Camels in India. As part of an Ind tour that includes the Taj Mahal, De and Jodhpur, join a 10-day guided sa on a camel across the Tar desert Rajasthan state. Daily distance is ab 15 miles; you pass remote villages, serted forts. The full 25-day tour cos $1,316, including hotels, meals, sa tents, and camel. Camel safari separat costs $749. Write or call Travel Pron tions, 3932 Wilshire Blvd., Suite 100, Angeles 90010; (800) 421-9898 (in C ifornia, 213/389-1105).

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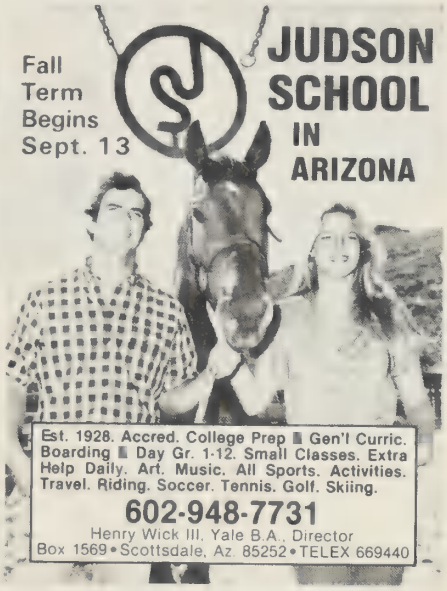

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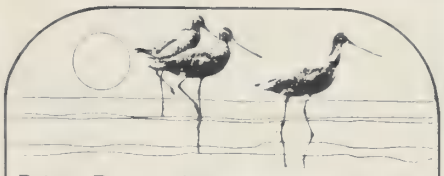

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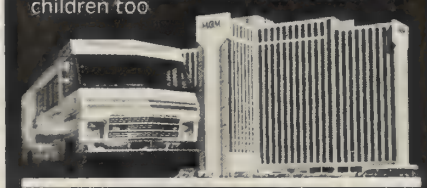

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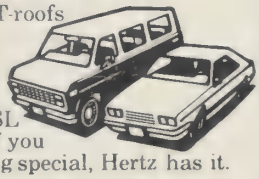

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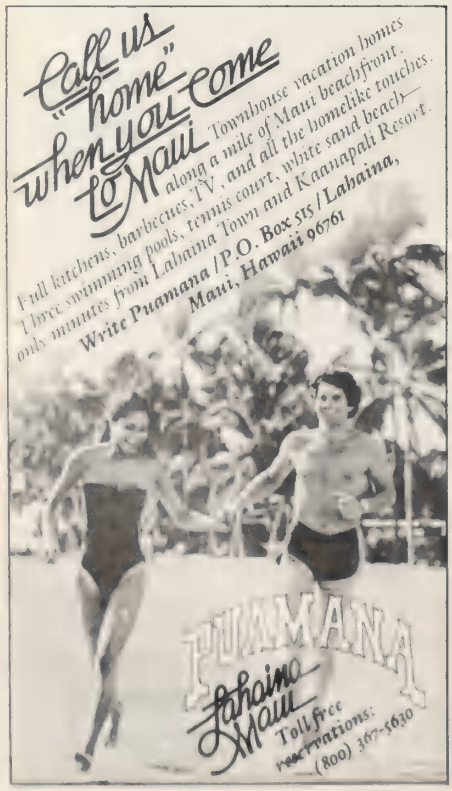

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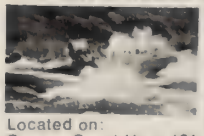

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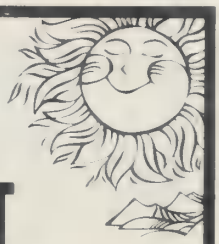

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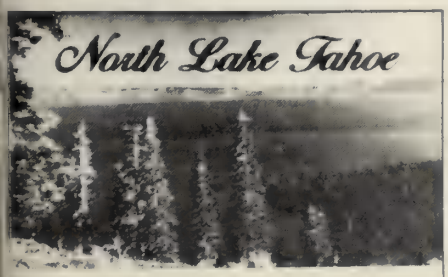

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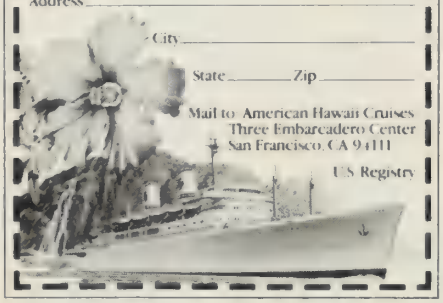

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Preparing a fresco *for 1939 World's Fair, muralist Diego Rivera was caught in moody profile by Peter Stackpole*

Six photographers view the Bay

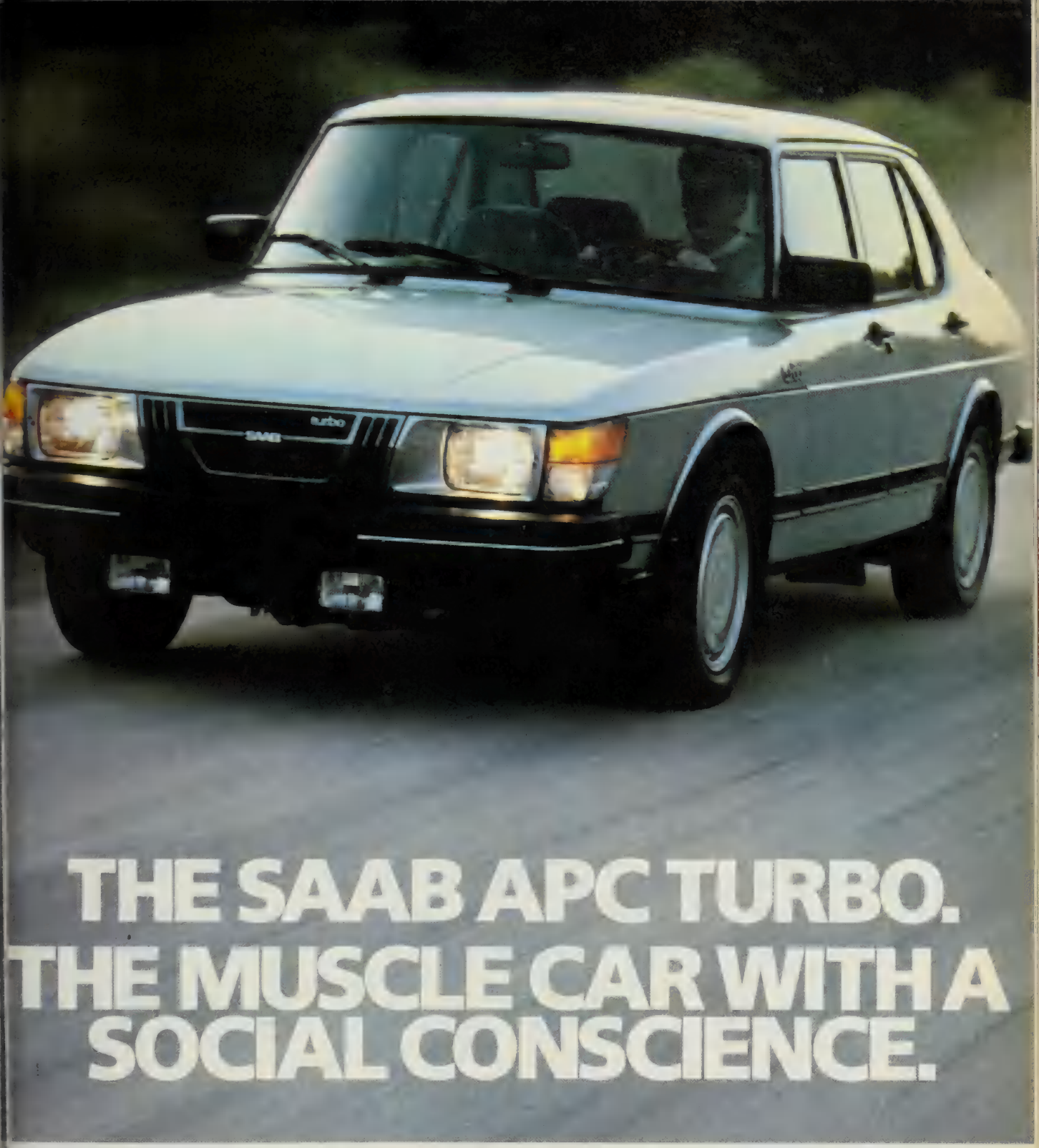
The decades spanning World War II brought San Francisco out of isolated regionalism to the brink of a major metropolitan boom. This month, a unique exhibit in Oakland's Kaiser Center gallery lets you take a look back: *1930-1960, A Bay Area Portrait* brings together some 80 images by six renowned photographers from this turbulent era.

All six photographers—Ansel Adams, Leo Holub, Rondal Partridge, Peter Stackpole, and the late Imogen Cunningham and Dorothea Lange—came to prominence during this period. All lived and worked in the area, and all lovingly watched it through the lens, though with remarkably different perspectives.

You'll see the prebridge Golden Gate (Adams), the dramatic building of the San Francisco - Oakland Bay Bridge (Stackpole), and street-scene reality (Lange). Partridge records family life, Cunningham dwells on the faces of both the famous and the unknown, and Holub documents urban evolution with his trademark whimsy.

Duplicate prints of many of the photographs are available for purchase. (Some start at $100, but the average price is $200 to $300.)

The gallery is on the mezzanine of Kaiser Center, 300 Lakeside Drive, Oakland (a block from the 19th Street BART station). The exhibit continues through August 25; hours are 8 to 6 Monday through Friday, 10 to 6 Saturday. Admission is free. □



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Jamaica Tourist Board

GREGG MANCUSO

erched *on a ridge, open Edgewood Park verlooks rolling foothills, freeway*

Foothill trails handy to I-280

ounded by Interstate Highway 280 and nall subdivisions, Edgewood County ark in Redwood City, 25 miles south of an Francisco, has nevertheless managed retain a wild feel. Its 467 acres, once armarked for the site of a state college mpus, now contain a small network of ails that wind through grassland and into chaparral and woodland on Sky- e Ridge.

rchased in 1980, the park land is still etty much undeveloped: trails are un- arked and unnamed; there are no pic- c tables; there isn't even a drinking untain or rest room facility. Plans call r those features and more: possibly an terpretive center, maybe a golf course d day camp.

eanwhile, you can roam at will over ntly sloping hills seared golden brown the summer sun, fly a kite, or look out vistas of the Crystal Springs reservoirs ross the freeway. Hikers should bring ter. Horse owners can use the trails ere are no rental stables).

roughout the meadowlands, you'll spot tcroppings of mottled green serpentine a soft, crumbly rock characteristic of Coast Range.

e park is open daily dawn to dusk. It's t north of Cañada Community Col- e. To get there from I-280 (Junipero rra Freeway), take the Cañada Road t in Redwood City and head south to ferson Avenue; turn left on Jefferson, n left again on California Way. Turn ht on Sunset Way and follow it to the t entrance road to the park. □

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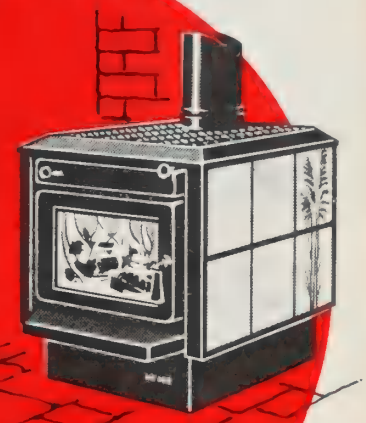

KENT

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As the wood is burned the flame and smoke is pulled in a downward motion through the coals to ignite and burn the volatile hydrocarbons for a complete burn that produces maximum heat output and leaves so little residue that a once monthly ash removal is the maximum needed.

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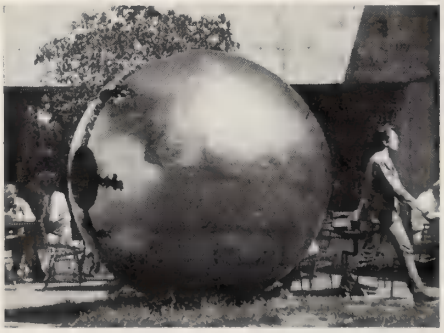
JERRY FRE

Seen against distant bridge, *Fletcher Benton's Balanced Unbalanced C looks at home in new Fort Mason*

Sculpture hard-edged to beguiling . . . in Oakland now

With strong support throughout the Bay

Lunchtime art lovers *at UC Berkeley's museum dine next to Arnaldo Pomodoro's brass Rotante dal Foro Centrale*



Seriously, now, is that sculpture?

"We'll hear comments like that a lot this month," says Paul Tomidy, curator at the Oakland Museum. With the Twelfth International Sculpture Conference, held in Oakland August 6 through 15, the Bay Area receives a rich assortment of sculpture exhibitions in a parade of modern styles—early neoclassic figurative (traditional bronze castings), process (the work evolves to become part of its site), kinetic (parts move), and others.

The conference, never before held in the West, is a major art event. It will bring some 3,000 artists together to discuss issues and techniques. Talks are open to the public on a space-available basis; all-day tickets are $35 through the host Oakland Museum: call (415) 835-1991 for details.

Dozens of sculpture shows open in museums and galleries this month, five of major importance; a new sculpture promenade will be unveiled in Oakland; and several outdoor sites will also sprout art. Most of the exhibitions highlight post-1940s American work, offering an opportunity for a comprehensive look at the sculpture of our era.

You may find some works jarring; others awesome, using new materials and techniques. What you'll certainly discover is the diversity of what is called sculpture today. Here are some of the major exhibitions:

Ceramics and bronzes *by Robert Arneson (like Ol' Bob here at Hansen Fuller Goldeen Gallery) are in several shows*

Muscles straining, *cast aluminum greyhounds by Anna Hyatt Huntington typify work at Legion of Honor*

NORMAN A. PLATE

Creating windows *with surfaces, Alexander Lieberman's Within sits in Berkeley*

Nodding arms *of Two Red Lines II sweep over planted courtyard outside Oakland Museum, where sculptors meet this month*

Bay

nd Museum, 1000 Oak Street, nd; 10 to 5 Wednesday through lay, noon to 7 Sunday; $2. In "100 of California Sculpture," running August 7 to October 17 you'll see by Stirling Calder, Arthur Putnam, Voulkos, and more. Styles range from ssic bronze nudes of Robert Graham ward Kienholz's controversial *Back odge*, made of the back section of a th two lovers (it created quite a stir '60s). The new sculpture garden runs he museum to the Oakland Estuary.

andro Bay Regional Shoreline on tle Drive will have some half-dozen lation pieces" (siting is part of the attered over Arrowhead Marsh h October.

rsity Art Museum, 2626 Bancroft Berkeley; 11 to 5 Wednesday through y; $1. Now through August 31, you can see "Bay Area Sculpture," fairly recent works by 15 artists—from the literal humor of Robert Arneson to the expressionism of Manuel Neri. You can have lunch at the museum restaurant's outdoor tables.

Peninsula

Palo Alto exhibits works outdoors at the Cultural Center (Newell and Embarcadero roads) and at the Santiago Collection/ Smith Andersen Gallery; call (415) 327-7762 for more information.

San Francisco

California Palace of the Legion of Honor, Lincoln Park; 10 to 5 Wednesday through Sunday; $2. "American Sculpture from the Collection," July 31 to October 31, gives a look at 70 more traditional pieces (1820s to 1940s), including classic bronzes by Frederic Remington and Thomas Eakins, animal studies by Arthur Putnam.

Fort Mason, at Laguna Street and Marina Boulevard in San Francisco, hosts a make-your-own sculpture day August 8 from 11 to 3 (wood and glue provided free); nearby are three newly installed sculptures.

M. H. deYoung Memorial Museum, Golden Gate Park; 10 to 5 Wednesday through Sunday; $2. The sculptural qualities of functional items are emphasized in "The Bay Area Collects: Arts from Africa, Oceania, and the Americas," through October 8. There are more than a hundred objects, from woodcarvings to gold.

San Francisco Museum of Modern Art, Van Ness Avenue at McAllister Street; 10 to 6 Tuesday through Friday, 10 to 5 weekends; $3. A show to run July 22 to September 19 is called "20 American Artists: Sculpture 1982"; you'll see a never-before-exhibited Georgia O'Keeffe cast aluminum work, a room-sized Claes Oldenburg umbrella, a statue in green serpentine by Isamu Noguchi, more. □

VALENTINE ATKIN

Morning fog *creeps over Monterey pines along Earl Moser Hiking Trail; new route opens access to Jacks Peak Park upper meadows*

Looping trails near Monterey . . . cooling fogs, possibly spectacular views

Bay breezes sweep regularly through Jacks Peak Regional Park, a 525-acre wooded ridge area 3 miles south of Monterey, making it an appealing retreat for summer hikers. Two trails added this year—Skyline Self-Guided Nature Trail and Earl Moser Hiking Trail—bring the total number of trails to 10. Most intersect, making possible a variety of short looping walks.

Skyline Self-Guided Nature Trail—best enjoyed with an interpretive brochure available at the trailhead—takes you past 1,068-foot Jacks Peak, the highest point on the Monterey Peninsula. Along the .8-mile path, you pass 15 numbered posts that correspond to brochure descriptions of native plants and animals.

Earl Moser Hiking Trail, named for a man influential in preserving parkland, offers a steeper 1-mile walk. It follows the northeast side of the park and traverses the ridge between Hidden Meadow and Bantail Point trails.

In the morning and early evening, fog can obstruct views, but on clear days the trails offer spectacular glimpses of Monterey Bay, Carmel Valley, Point Lobos, and the Santa Lucia Mountains.

Poison oak grows in abundance along the trails. Information at the trailhead will help you identify and avoid it.

Trail maps are available at the two parking lots. Plan to arrive early: with only 61 spaces, the lots frequently fill up, so the park sometimes closes by 1 or 2 P.M. on sunny weekends. Picnic facilit some with barbecues, dot the edge each parking lot. A group site for people rents for $25 per day; for re vations, call (408) 424-1971.

Just outside the park, Jacks Peak Stal rents horses and offers a Friday even guided ride ($35) that takes you to peak for a barbecue picnic. All tr except the Earl Moser Hiking Trail suitable for equestrian use. For reser tions, call (408) 375-4232.

To reach the park (closed Tuesday Wednesday), exit south from State Hi way 68 at Olmstead Road and turn onto Jacks Peak Road. The park is ab 2 miles from State 68. At press time $1 per car fee was being considered.

Studied concentration *re-creates pine forest in watercolor (left); sticky monkey flower, in bloom most months, wins smile (right)*

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Lofty fronds *of Australian tree ferns planted in early 1900s spread over visitors on walk through Golden Gate Park. Volunteer from Friends of Recreation and Parks points out landscaping detail*

R. VALENTINE/ATKINSON

Imposing granite figures *in front of the Stock Exchange hold their own amid large downtown buildings. The Robert Stackpole carving, dedicated to man's inventive genius, stands 27 feet high*

Park, downtown, the Mission ... walking San Francisco tours. Many are free

Within less than 48 square miles, San Francisco packs a dazzling assortment of historical, architectural, and even botanical wonders into its compact districts. Walking the city, you can study Victorian detailing, admire unusual plantings in Golden Gate Park, check out the haunts of fictional detective Sam Spade.

Several organizations offer tours touching on these and other aspects of San Francisco life.

During the week, such walking tours usually depart at noon; on weekends, times vary. Many walks are free. No reservations are required.

Heritage: gold rush to skyscrapers

The Foundation for San Francisco's Architectural Heritage (Heritage) offers three "brown bag" tours of the financial district every Thursday at noon; each costs $1 and lasts 45 minutes. For more information, call (415) 441-3000.

The *Jackson Square Historic District* tour takes you back to gold rush days, in an area where simple brick structures served the burgeoning population of the 1850s. Highlights include sites where the Masonic order began in California and where Mark Twain and Bret Harte wrote for the magazine *Golden Era*. Meet at Washington and Montgomery streets by the Transamerica pyramid.

The *Banking Temples* tour unlocks parts of San Francisco's financial history. You are led past Corinthian columns, heads of roaring lions, avenging angels, granite coils of rope, Greek friezes. The lives of such magnates as William Ralston and A.P. Giannini weave through discussions of these monumental structures. Meet at Clay and Montgomery streets.

Splendid Survivors is a tour of 20th-century office-building designs. You see exotic structures popular in the 1920s, the first soaring glass tower, and a 10-story Gothic-style "skyscraper" only 20 feet wide. Meet at 130 Sutter Street.

Mexican Museum: ethnic murals

In the Mission, you can enjoy the vitality of Mexican-American and Latino culture in a 26-block mural walk. More than two dozen murals depict everyday life in the Mission, convey political statements, celebrate pre-Hispanic mythology, and express the concerns of child

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muralists. Operated by the Mexican Museum (Fort Mason, Building D), the tours cost $3.50 ($1.50 for students and seniors) and leave from 1855 Folsom Street the second Saturday of every month at 10. For details, call 441-0404.

Golden Gate Park tours: history, botany

Four free weekend tours, offered by Friends of Recreation and Parks, wind through Golden Gate Park. For details, call (415) 221-1310.

Every Saturday at 11, there's a 90-minute walk to the park's highest point on Strawberry Hill, past sites where Sweeney's Observatory and Huntington Falls used to be. Meet at the map directory between the Japanese Tea Garden and the de Young Museum.

At 2, a 90-minute tour of the park's west end leaves from the map directory on Kennedy Drive near Spreckels Lake. Highlights include turn-of-the-century windmills and discussion of the current reforestation program.

Every Sunday at 11, a group combs the eastern sections of the park, delving into the history of its development. You pass the Mary B. Connolly Children's Playground, McLaren Lodge, the Conservatory of Flowers, and a fuchsia garden. Meet at the map directory by the entrance to the Academy of Sciences.

At 2 and also at 3, a 30-minute tour of the Japanese Tea Garden explains methods of tree trimming and styles of architecture in this oldest Japanese-style garden in the U.S. Meet inside the garden entrance; there's a 75-cent garden admission fee (25 cents for children).

Sam Spade's footsteps: near Civic Center

This lively 3-hour tour takes you places where Dashiell Hammett lived and set some of his fictional locales. You pass the site where Miles Archer, Sam Spade's partner, was done in by Brigid O'Shaughnessy; the James Flood Building, where Hammett worked for Pinkerton's detective agency; and John's Grill, where Sam Spade stopped for a bite to eat while chasing down the Maltese Falcon (you can order an identical meal, the "Sam Spade Chops Special").

The tour leaves at noon every Sunday through September. It covers about 3 miles and costs $4 ($1.50 for seniors). Meet in front of the main library at Larkin and McAllister streets. Look for guide Don Herron—the guy in the trench coat and snap-brim fedora. For more information, call 564-7021.

City Guides: citywide walks

Sponsored by the Friends of the San Francisco Public Library, City Guides have six free walks.

The City Hall tour, given every Thursday at noon, concentrates on Civic Center history. You'll study the spectacular City Hall rotunda and the carved oak

R. VALENTINE ATKINSON

talianate house *(foreground) and Queen Anne (rear) are styles of domestic Victorian rchitecture explained by City Guides*

valls in the Board of Supervisors' cham-ers. Meet in the San Francisco History Room on the third floor of the main li-rary at Larkin and McAllister streets.

Coit Tower murals are the focus of nother walk. The controversial 1930s aintings deal with a variety of Califor-ia themes. Guides point out visual tricks nd puns implied in the frescoes. This our meets every Saturday at 11 at Coit Tower reception desk.

A third tour highlights Portsmouth quare—the city's heart during the gold ush. This is a noontime walk given the rst and third Wednesdays of each nonth. Meet at the Clay Street lobby of he Transamerica pyramid, 600 Mont-omery Street.

Contrast between old and new is evident n the tour of Market Street. Here you an see buildings constructed shortly after he 1906 earthquake now standing beside owering modern skyscrapers. Historical etail is seen even in the styles of man-ole covers, sewer vents, and street ights. The tour leaves the first and third uesdays of each month at noon and ev-ry Saturday at 2; meet at the southwest orner of Market and Steuart streets.

n a North Beach walk, guides trace the evelopment of the area's Italian and ohemian communities. Sites range from aints Peter and Paul Church to a pasta nuseum." Tours leave Saturdays at 10 om the church at 660 Filbert Street.

n the Pacific Heights tour, you learn to fferentiate various Victorian architec-ral styles. You see examples of Ital-nate, "Stick," and Queen Anne struc-res, as well as mansions built for dolph Spreckels and James Phelan. he tour leaves every Saturday at 10 and ain at 2. Meet at 1801 Bush Street at ctavia. For details, call 558-3770. □

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GLENN CHRISTIANSEN

After menacing greeting, *warrior leads amicable tour of village. Below, dancers perform one of 15 numbers in repertoire of Dance Theatre of Fiji*

Fijian dancers, warriors, firewalkers

That fierce-looking warrior wielding the clubs is actually one of the friendly guides at The Cultural Centre and Marketplace of Fiji. This handsomely designed and landscaped complex at Pacific Harbour, about 30 miles southwest of the capital city of Suva, is dedicated to the preservation of Fijian culture.

On a day-long or overnight visit, you can take a boat tour around an island in the complex and see demonstrations of village life as it was before the British colonial period, then watch a performanc by Fijian dancers or firewalkers. Beside a small cultural museum, there are shop selling crafts, a market where you ca buy picnic fixing, and a bank, post office and restaurant. You can join a fre guided walk of the complex and garden

Island tours run Monday through Satur day between 9:30 and 2, with boats de parting every 15 minutes. Traditions dances are performed Monday, Wednes day, Thursday, and Saturday at 3:30

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GLENN CHRISTIANSE

Twin-hulled canoe *with thatch roof takes you on island tour. High-peaked structure behind is replica of temple*

the firewalking ceremony is held Tues day and Friday at 3:30. The cost for th tour and either event is about $7.2($3.60 for children 5 to 15. If you're stay ing in Suva, you can buy a package ex cursion that includes the island tour an either event plus bus service from you hotel; cost is $18, $9 for children.

From the Nadi area on the west coast c Viti Levu, you can also take a bus tour t the center for about $48 (children, $24 or drive there (about 90 miles, most un paved) in a rented car. The ride can b dusty, bumpy, and slow but the scener is lovely. A *Sunset* team drove to a hote at Pacific Harbour, then flew back t Nadi on Fiji Air (one way, $30). Fligh time is about 30 minutes; you fly lo enough for a bird's-eye view of the islan and its reefs.

Masi (tapa cloth) *printing is done with stencil and dyes. Demonstration is given in open-sided hut (bure)*

Spider Veloce

The reasons for buying an Alfa Romeo Spider Veloce are equally distributed between the quality of the car and the personality of the driver. On the one hand, the Spider Veloce is a finely balanced showcase of race-proven engineering whose net practicality makes it an excellent value. On the other hand, drivers who know and love driving find that it's just plain fun to drive.

For good reason. The Spider Veloce starts, goes, stops and corners fast. It even looks fast just sitting there. It has an aluminum-alloy DOHC engine and five speed transmission. The Bosch L-Jetronic fuel injection ensures instant, smooth power. The 4-wheel power assisted disc brake system will decelerate you back to zero in an amazingly short, straight line. And the Spider Veloce's suspension is refined to the point that most expert drivers consider handling to be the most outstanding of its outstanding characteristics.

At this point, we'd like to mention that the Spider Veloce is also gorgeous. The classically simple and elegant Pininfarina exterior does exactly what outstanding styling should do, namely stand out. The interior is a combination of Pininfarina style and common sense.

But it won't be until you're behind the wheel that you'll feel the Alfa Romeo history. And the magic will really take over. We're sure you'll agree with us. This is one car that brings a whole new meaning to the old expression "it practically sells itself."

The GTV 6
2.5 Coupé

Alfa Romeo

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18th-century America at the State Department in Washington

Bureaucratic modern is the exterior style of the 1961 U.S. Department of State building in Washington, D.C. And so are seven of the eight floors inside. But the top floor contains the state reception rooms for visiting dignitaries, decorated and furnished as in the period 1740 to 1825. For the past 20 years, the Department of State has been assembling gifts or loans of museum-quality furnishings for the rooms. They are well worth seeing, and they are open weekdays for tours by advance appointment.

As you step out of the elevator, you enter the 18th century. Informative guides point out marbleized wood walls, classical cornices, hand-carved woodwork; Queen Anne, Chippendale, Hepplewhite, and Sheraton furniture; paintings by Gilbert Stuart, Rembrandt Peale, Thomas Sully; rare silver by well-known American silversmiths.

At first, it's hard to imagine how the

iting dignitaries *(left) create only itement on State Department exterior. de, 18th-century dining room (above) ects style and period of Jefferson*

Chippendale secretary *is one of many museum-quality pieces in state rooms. It was made in Massachusetts about 1765 for merchant Robert Hooper*

18th century can hide behind the 20th, but the reception rooms' walls are set about 2 feet inside the exterior walls and glass curtains blur the transition.

Different rooms are named for the country's first statesmen: John Quincy Adams, Thomas Jefferson, Benjamin Franklin, James Monroe, James Madison. Largest is the 45- by 98-foot Franklin State Dining Room. Most beautiful is the Wedgwood blue Jefferson State Reception Room, designed to reflect classical details found in his buildings.

Even if you're not a connoisseur of antiques, you will be impressed by the artistry and craftsmanship in the young United States, and by the historical substance of many pieces: the desk on which the final Treaty of Paris was signed in 1783; Chinese export porcelain, some owned by George and Martha Washington; Chippendale chairs belonging to Francis Scott Key; silver smithed by both Paul Reveres (the son was the midnight rider); a desk used by Jefferson in Philadelphia, possibly to draft part of the Declaration of Independence.

Hour-long tours are given three times a day, Monday through Friday. To make an appointment (at least three weeks in advance), write to the Tour Office, Room 1493, State Department, 2201 C. St. N.W., Washington, D.C. 20520, or call (202) 632-3241. □

For information write Travel Alberta, Capital Square, Edmonton, Alberta T5J 0H4.

Biking back roads from Victoria, B.C., to Butchart

North of Victoria, Butchart Gardens are a "don't miss" attraction for visitors to this Canadian capital. Most arrive by car or tour bus. But since the gardens are only 13 miles from town, they're also a fine one-day bicycle destination if you can avoid heavily traveled main roads (highways 17 and 17A).

Butchart Gardens, formerly a quarry, is now a well-maintained 35-acre profusion of blooms and trees. It opens daily year-round at 9, closes at 11 P.M. in August, at 9 in September, then earlier as winter comes. In August perennial borders will be at their peak; in September, dahlias, zinnias, and chrysanthemums. Admission is $6 for adults, $3.50 for ages 13 through 17, $1 for ages 5 through 12.

Except for the first 3 miles, the route we outline here sticks mainly to back roads, misses most of the traffic, and is relatively flat. Along the way are parks to explore and pastoral countryside to see—dairy farms, orchards, rambling stone fences, farmhouse gardens, meadows for horses. You can stop at a produce market for a glass of fresh cider or detour to the Dominion Astrophysical Observatory or a garden teahouse.

Bicycles rent for $7 to $10 a day at several bike shops and rental agencies in Victoria; check the telephone book yellow pages. Or bring your own bike on the ferry. Ferry choices include the summer steamer *Princess Marguerite* (through October 3) from Seattle and the year-round Black Ball ferry from Port Angeles, both direct to Victoria, as well as ferries from Horseshoe Bay and Tsawwassen on the B.C. mainland to Nanaimo and Swartz Bay on Vancouver Island. Expect especially large crowds on the weekend of B.C. Day, Monday, August 2.

Flanked *by flowers and trees, bikers wheel into Gazebo Tea Garden*

Pedaling back roads, Inner Harbour to Butchart (see map, page 42)

Beginning near the Empress Hotel at Victoria's Inner Harbor, pedal north on Government Street 1⅓ miles to where it joins Douglas Street (signed Highway 1), and continue north on Douglas ¼ mile to Burnside Road. Turn left and follow Burnside northwest 1¾ miles to where it cuts under Highway 1, turning north and becoming Interurban Road. Within ¼ mile is Colquitz River Park, which follows the stream north more than a mile.

Pedal north on Interurban 4 miles from Burnside (losing traffic as you go) to the intersection with Goward Road on your left. Take this up-and-down, paved but rather bumpy country lane 1½ miles to Prospect Lake and a park at its north tip. Just north

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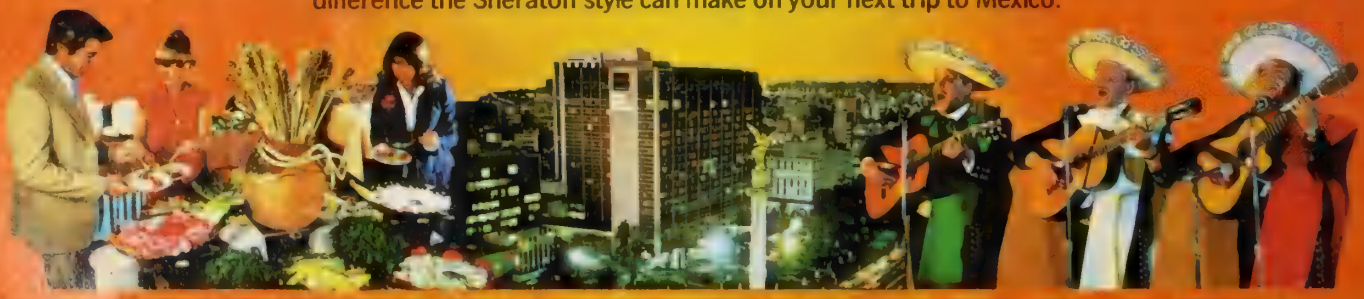

Maria Isabel Sheraton—A short stroll from Mexico City's finest business and fashionable shopping district, the Zona Rosa. Relax in the Jorongo bar to romantic Mariachi music, or dine on tempting Mexican cuisine at the Veranda.

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Ranger XLT model shown

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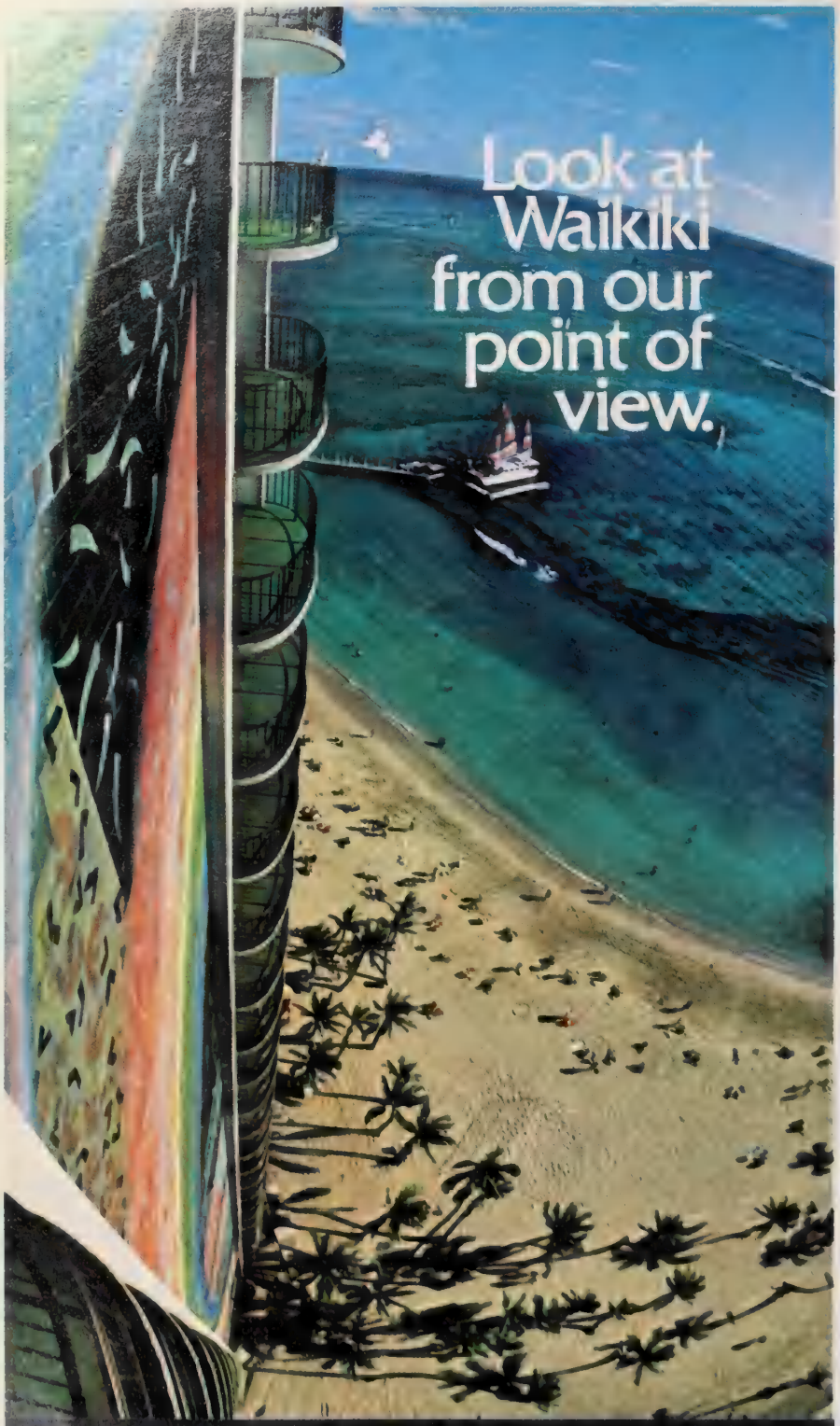

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Bike route *avoids traffic, includes side trips to parks, teahouse, observatory*

of the park, turn right onto Prospect Lak Road and drop down ½ mile to W. Saanic Road (Highway 17A). Turn left, keeping a eye on traffic, and pedal a mile north t Wallace Drive on the left. (Just before Wa lace Drive is a farmer's market, where yo can stop for cider or fresh fruit.)

Take Wallace 2½ pleasant miles to Benver uto Avenue; turn left and continue ⅓ mil to the entrance to Butchart Gardens. Th attendant will direct you to bike racks. Tw restaurants and a coffee shop serve mea and snacks.

Return side trips: garden teahouse, observatory, regional park

Backtrack on Benvenuto and Wallace to W Saanich Road and continue south a mile t Sparton Road on the left.

Teahouse option. Follow signs to Gazeb Tea Garden up Sparton Road 1 mile (it's bit steep in places), then right on Old W Saanich Road 1/10 mile to the teahouse Hours are normally 10:30 to 6 daily, bu some Saturdays may be preempted by wed ding parties. To check, call (604) 479-778

Continue southwest another 1½ miles t W. Saanich. Turn right (northwest) and fol low it ¼ mile to Goward Road; turn lef and immediately rejoin Interurban for th return to Victoria.

Observatory option. From Sparton Road continue southeast on W. Saanich Road ¾ mile to the access road on the left leadin uphill 1 mile to the Dominion Observatory Visitors are welcome.

Continue southwest ¾ mile on W. Saanic to Goward and Interurban and the wa back to town.

Regional park option. From Sparton Road follow W. Saanich southeast 1¾ miles t Beaver Lake Road. Head left 1 mile to Elk Beaver Lake Regional Park, open dawn t dusk, with a beach, picnic tables, rest rooms To return, take W. Saanich southeast t Wilkinson, turn right and follow Wilkinso to Interurban.

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Home Replacement Cost Guarantee. Optional in most states on Allstate Insurance Company Standard and Deluxe Homeowners policies. Allstate Insurance Company, Northbrook, Illinois

JERRY FREDRICK

The barbershop quartet, *a tradition still strong in Sonoma County, gets streetside airing in historic Railroad Square*

Bunting-draped *for its opening fling, Western Hotel inspires celebratory leap from an antique running board*

Santa Rosa's Railroad Square kicks up its heels

Cavernous space *in old warehouse now serves 34 antiques dealers in jumbled collective called Whistle Stop*

The crested fronts of the solid old commercial buildings in Santa Rosa's Railroad Square stand a little prouder these days. Restoration of this federally designated Historic District, a turn-of-the-century warehouse and rail-hotel center, is proceeding steadily despite the less-than-favorable economic climate, and the block-long stretches of Third and Fourth streets between Wilson and Davis are now well worth a visit. The recent opening of a thoughtfully refurbished vintage hotel—the Western—gives out-of-towners an interesting place to stay overnight.

You can use the Santa Rosa stop as a back-roads gateway to the Sonoma and Napa valleys to the east or to the Russian River wineries and resorts north and west. But you might choose to stay in town and let reawakened Railroad Square kick up its heels around you—it puts on a frolicsome Dixieland festival later this month, and there's vaudeville, melodrama, and cabaret entertainment every weekend. Or finger your way through the pleasantly drowsy antique shops for which the square is best known.

The square: what's new

Just a few years ago, Railroad Square still slumped in the must of various secondhand clothing and auto-parts emporia, overshadowed by a near-derelict macaroni factory. Then the first few merchants, encouraged by interest in the historic status of their district, began upgrading to code and in keeping with its period character. Others followed suit.

Now, with more of the mercantile buildings restored and reappreciated, new uses are emerging for the old spaces. Along Fourth Street, there's a concentration of antique and gift shops (leavened by touches of eccentricity), and the Railroad Square area boasts a high-toned French restaurant—La Gare—plus a number of more down-to-earth places with reliable fare.

The newly restored 1903 Western Hotel is at 10 Fourth Street, across the street from the old station. Even if you're not an overnight guest (the few dozen rooms run $55 to $85; call 707/546-7900), you can have a drink here at the original bar and enjoy the Amish quilts hung in the public rooms.

Behind the Western is the Marquee Theater (15 Third Street; 707/545-1906), which produces authentically staged vaudeville and melodrama, serves drinks and locally renowned hot dogs, and encourages a sawdust-on-the-floor, boo-the-villain atmosphere. Theater admission is $5 Wednesday and Thursday nights, $7 Friday and Saturday, $4 any time for those under 12. Opening August 13 is a new melodrama, *The Peril of Paradise Mine*, accompanied by olio-

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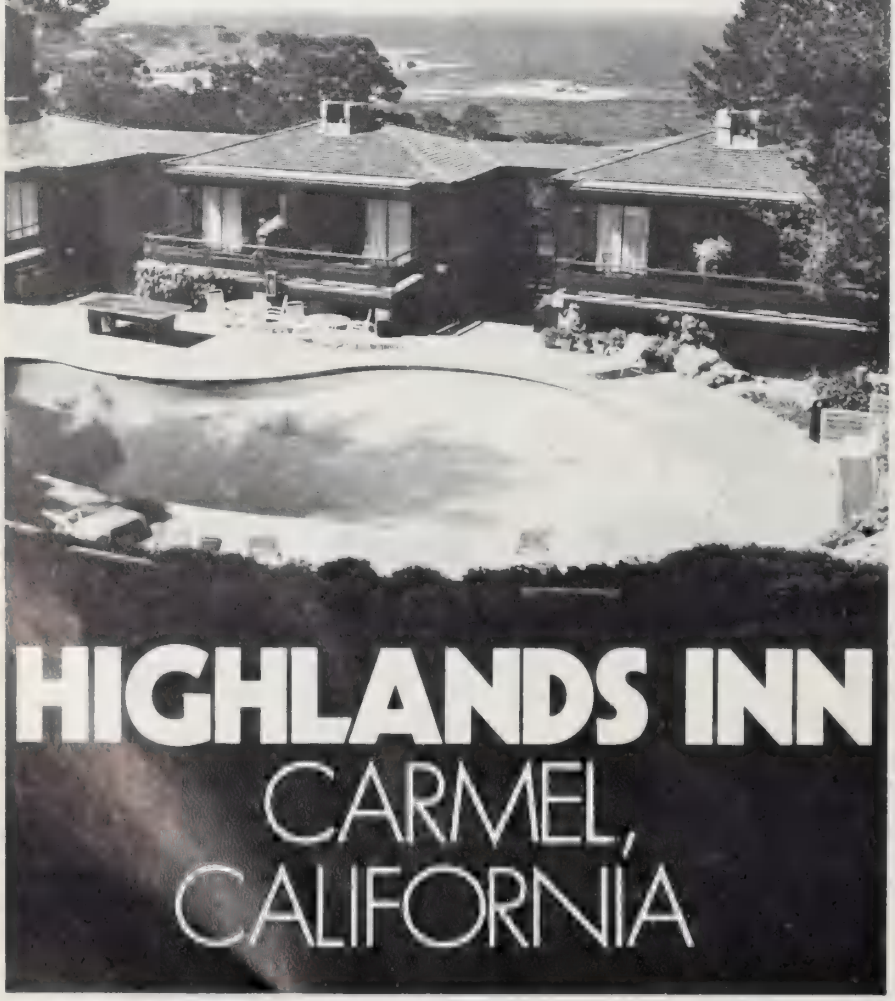

DAVID STUBBS

Hoofing on the boards, *performers at Marquee Theater rehearse vaudeville skit outside on theater's wooden porch*

style vaudeville sketches with a Barbary Coast theme.

Don't neglect the far side of the square—Third Street. Back here you'll find quiet expertise: a silver shop, a fabric and notions store (with quilt workshops), a lamp repairer, and, on Wilson Street, an old-book dealer.

This month: Dixieland in the clubs, fun in the street

On August 22, Railroad Square pulls out all its stops. From 11 to 6, eight Dixieland jazz groups play on a rotating basis in six area restaurants and clubs. A horsedrawn hay wagon will ferry listeners to the less-central locations on the far side of the tracks.

There's a free Dixieland concert from 12:30 to 2:30 in the park near the railroad station. Otherwise, admission to performances is by showing a special souvenir button at the host club's door ($8, to benefit United Cerebral Palsy and the Agency for Infant Development). To order buttons, send a check to AID, 1741 Fourth St., Santa Rosa 95404 or call (707) 544-3448.

Out on the street, it's wide-open fun all day, with barbershop quartets, vaudeville skits, a sing-along, a chicken barbecue, a chili cook-off, an antique car rally, quilt displays, a pie-baking contest, and a raffle.

In midsummer, temperatures often reach the mid-80s, so bring a hat for shade—and bring a sweater for cool evenings.

How to get there

Santa Rosa is 60 miles north of San Francisco, just off U.S. 101. Northbound, take the Downtown Santa Rosa exit; go left under 101 on Third Street, then right on Wilson to Fourth. Southbound, take the Downtown exit onto Davis Street; follow Davis south to Fourth. ▫

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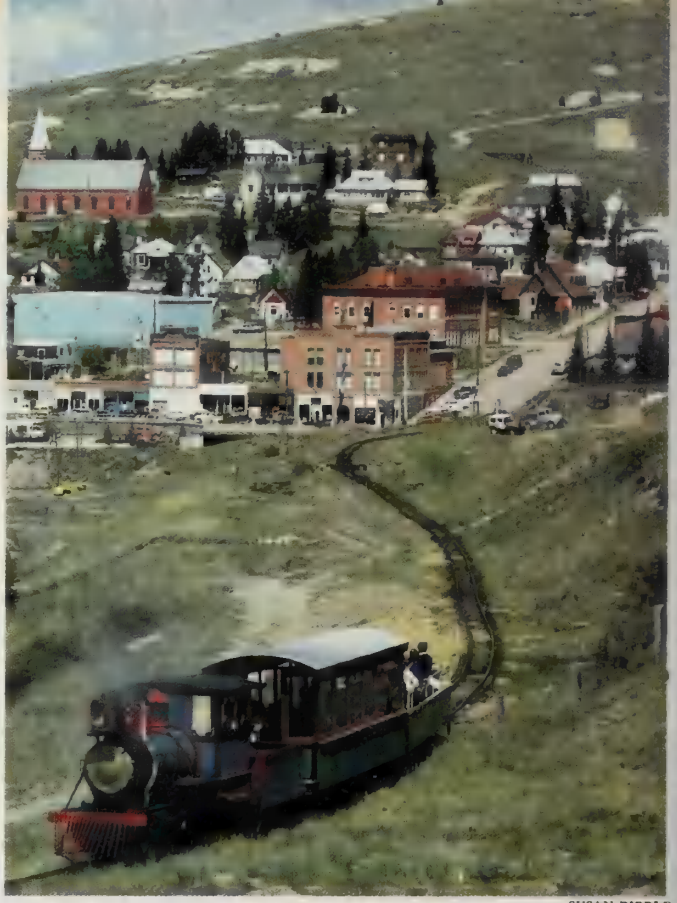
82 VOLKSWAGEN OF AMERICA INC

*EPA estimated 29 mpg Use for comparison only Actual mileage varies with speed, trip length and weather

All aboard! *Jacketed against Rocky Mountain morning chill, rail fans board restored coaches at Durango station*

JOEL W. ROGERS

Rolling off *on a steam train adventure, these two excited passengers crowd coach window on historic lumber country train*



SUSAN BIDDLE

Chugging out *of historic Cripple Creek, Colorado, steam train runs on narrow-gauge track common to mine camp railroads*

Still steaming… and clanging and tooting

Only a few of the West's marvelous steam trains are left. Here's a summer guide to where to ride into the past . . . all over the West

Stately depot, *built in 1890 by Northern Pacific, is now the starting point for Puget Sound & Snoqualmie Valley Railroad*

Two long blasts of the whistle, a jolting of cars, and the train slowly rumbles forward. A bell is clanging, and as big wheels start to turn, you can hear the engine working: *choo-choo-choo-choo*. It is a rhythm as familiar and insistent as a heartbeat.

Until the early 1950s, this was the song of roundhouses, switchyards, depots, and whistle-stops—a symphony of huffing and puffing and tooting and ringing from some 70,000 working steam engines. Running across the continent trailing clouds of steam and sooty smoke, or working the "short lines" to remote mines and logging camps, these locomotives linked a far-flung nation.

In the last three decades these mechanical marvels have practically disappeared, their places taken by more powerful, more efficient diesel locomotives. But this summer some 20-plus railroads throughout the West still offer visitors a chance to board old-fashioned steam

JERRY FREDRICK

Puffing through *pine forest in the Sierra foothills, old iron horse pulls a string of open-air cars*

Reaching for *the bell cord, this aspiring engineer gets an in-cab lesson from experienced railroad man*

trains for a ride into the past. Many of the outfits listed on the following pages are within an easy day or weekend outing of most cities; others can be included in a summer vacation.

Most offer more than just a train ride. Many once served mining or logging operations, and a number display old-time equipment. Several railroads are based in gold rush boom towns, and at least two offer optional mine shaft tours. Some trains still roll over century-old roadbeds; others have historic stations that house railroad memorabilia. Cars you ride in range from restored vintage coaches to open-air passenger gondolas.

But the real attractions are the locomotives. Those in our listing are authentic,

SUSAN BIDDLE

Watch-wielding *conductor, working in passenger coach, logs arrival times at stops of Durango & Silverton Narrow Gauge Railroad*

Open-air cars *wind through redwoods in Santa Cruz Mountains on route of Roaring Camp & Big Trees Railroad*

DAVID STUBBS

Ride inside, ride topside, or watch from the depot . . . our state-by-state list tells where, when, how much

full-scale working steam engines (two smaller-scale replicas are noted). A surprising number are in original working condition (boilers may have been replaced over the years to comply with safety laws); the rest have been restored to former glory.

Last of the iron horses

Of the rare old pufferbellies still working, every year it seems fewer return to service. Steam train operators are no strangers to red ink, but a number manage to keep running with help from volunteers and donations.

This summer in California alone, the West Side and Cherry Valley Railway is looking for a new owner, the state is still looking for funds to resurrect the defunct Sierra Railroad, and even the famous "Super Skunk" train between Willits and Fort Bragg has replaced its steam oil-burners with more economical diesel switchers.

One bright spot is the spectacular new California State Railroad Museum in Old Sacramento, but for some rail buffs it's not enough. As one crusty engineer explains: "Until you see a locomotive working under a full head of steam, it's just another hunk of metal."

Indeed, a steaming locomotive is a marvel of size and raw power that radiates its own animal warmth. Standing near shoulder-high drive wheels, you can smell the hot oil that lubricates pistons and drive rods. White plumes steam from valves and fittings, and occasionally a mysterious panting sigh issues from near the boiler.

Although steam locomotives appear cor plex at first glance, their workings are a tually quite simple, as noted in the ph tograph on the next pages. The engi shown (a standard-gauge 4-4-0 Ame can) was one of the simplest locomotiv ever built, and epitomizes what mar historians call railroading's "Gold Age" around the turn of the century.

This was the era of the great railro empires, and the West had one of t greatest: the Central Pacific and Southe Pacific monopoly, known infamously the "Octopus." Spreading from the We ern half of the first transcontinental ra road (completed in 1869), it once dictat California politics, but it also spurred t development of the West.

This was also the era of the first "crack trains like the *Sunset Limited*, which 1898 whisked passengers from Oakla to New Orleans in 72 hours. It was luxurious, five-car train with sleepin lounge, and dining cars pulled by 4-4-0. Copies of a new magazine call *Sunset* (then published by the Southe Pacific Company) also rode aboard.

By 1916, of the more than 250,000 mil of track across the country, most was t standard gauge of 4 feet 8½ inches gauge imported from England, deriv from the width of chariot wheel ru found in ancient Roman roads). Narro gauge track (often only 3 feet) was p

Stick 'em up! *Gun-toting "outlaw" surprises riders on train at Knotts Berry Farm*

BILL ROSS

arily a Western phenomenon on moun-
n short lines, because locomotives
uld make tighter turns and the closely
aced rail line was cheaper to build.

here to ride

ugust is a good month to visit any of
steam railroads listed here. All will
n on full schedules at least through
bor Day (September 6), when some
l switch to weekends only. By Octo-
, most steam trains in mountain areas
l close until next April or May; others
l be on changeable winter schedules.
ter Labor Day, write or call ahead to
firm days and hours of operation.

les range from just 15 minutes to 8
rs and up, but most take an hour or
. You'll find a picnic area, a restau-
t, or both on the grounds or nearby;
h other attractions at most sites, allow
east half a day for a visit.

ASKA

gway. White Pass and Yukon Route:
ntly restored 2-8-2 (Baldwin
omotive Works, 1947) will make four
our trips this summer on the original
-mile Skagway-Whitehorse route built
ng the Klondike gold rush. Departures
August 1, 16, and 30, and September 22;
of $120 includes lunch. (Diesel-
ered trains cover the route daily during
mer.) White Pass and Yukon Corp.,
2147, Seattle 98111; (206) 623-2510.

LIFORNIA

heim. Santa Fe and Disneyland
road has four engines: 2-4-4 (Baldwin,
5), 2-4-0 (Baldwin, 1925), and two
0 replicas built in 1954; 1½-mile,
minute trip circles Disneyland. Runs 9
midnight daily (to 1 A.M. on Saturday)
ugh September 11. Admission: $12
ts, $10.50 youths, $9 children age 3 to
Disneyland, 1313 Harbor Blvd.,
heim 92803; (714) 999-4565.

a Park. Knotts Berry Farm Amusement
: two 2-8-0's (Baldwin, 1881) pull
red, century-old wood-frame passenger
; 1½-mile, 10-minute loop. Trains run
midnight daily (1 A.M. Friday and
rday). Park admission: $9.95 adults,
5 children 4 to 11. Knotts Berry Farm,
Beach Blvd., Buena Park 90620;
) 827-1776.

on. Roaring Camp & Big Trees Narrow
ge Railroad has five locomotives:
ck Shay (Lima Locomotive & Machine
ks, 1912), 2-truck Heisler (Heisler
motive Works, 1899), 0-4-2T (Baldwin,
), 0-6-2T (Baldwin, 1897), 2-truck
ax (Climax Manufacturing Co., 1928);
le, 1-hour round trip climbs through
t of giant redwoods in the Santa Cruz
ntains. Trains run daily from 11 to 4
gh Labor Day, daily at noon only rest
ar. Fares: $7.50 adults, $5 children 3
. R.C. & B.T.N.G.R.R., Felton 95018;
) 335-4484.

Camp. Yosemite Mountain - Sugar Pine
oad: restored 3-truck Shay locomotive
8); coaches are logs sectioned out to
passengers; 4-mile, 45-minute run over
red logging grade operates on weekends
0 to 3:30 through Labor Day. Fares:
lults, $3.25 children 3 to 12. Gas
ar operates daily. Y.M.-S.P.R.R.,
mite Mountain 93623; (209) 683-7273.

mond. Castro Point Railway has nine
motives; 2-6-2T (Alco, 1924), 0-4-0T (Porter, 1913), 2-6-6-2T (Baldwin, 1924), 3-truck Heisler (1913), and 0-6-0 (Southern Pacific, 1921) are operational. The 3-mile, 30-minute run follows edge of San Francisco Bay. Runs first Sunday of each month between 11 and 4 (train, but no steam August through October), from Molate Beach Park. Free; donations help restore and operate equipment. C.P.R., Pacific Locomotive Association, Box 2465, San Leandro 94577; (415) 653-0354.

COLORADO

Cripple Creek. Cripple Creek & Victor Narrow Gauge Railroad has 0-4-4-0 (Koeppel, 1902), 0-4-0 (Henschel, 1936), 0-4-0T (Porter, 1927), 0-4-4-0T (Bagnall, 1946); 4-mile, 40-minute trip from historic mining town past abandoned gold mines. Daily through September from 10 to 5. Fares: $3.75 adults, $2 children 3 to 12. C.C. & V.N.G.R.R., Box 459, Cripple Creek 80813; (303) 689-2640.

Durango. Durango & Silverton Narrow Gauge Railroad has four 2-8-2 locomotives (three from American Locomotive Works, 1923; one Baldwin, 1925); 90-mile, 8½-hour round trip including a 2-hour layover in old mining town of Silverton. Train travels through spectacular Animas River Gorge along route built in 1882 for hauling miners and ore. Trains daily at 7, 8:30, and 9:30 A.M. (also a short trip at 4:30) through October 23; reservations a must. Fares: $21.25 adults, $10.65 children 5 to 11. D. & S. N.G.R.R., 479 Main Ave., Durango 81301; (303) 247-2733.

Golden. High Country Railroad has 0-4-0T (Henschel, 1939), 0-8-0 (Hartmann, 1918), and 2-truck Shay (Lima, 1920); 1½-mile, 15-minute ride goes around "Old West" amusement park. Trains run daily 11 to sunset through Labor Day. Fares: $2 adults, $1 children 5 to 12. H.C.R.R., Heritage Square, Golden 80401.

Georgetown. Georgetown Loop Railroad has two 2-8-0's (Baldwin, 1920 and 1921) and two 3-truck Shays (1916 and 1922); 5-mile, 1-hour trip in mountain valley over old Colorado & Southern narrow-gauge right-of-way with stop for a mine tour. Operates daily from 11 to 4 through August 30; weekends in September, weather permitting. Fares: $5 adults, $2.50 children 5 to 15. G.L.R.R., Box 311, Golden 80401; (303) 279-9670.

HAWAII

Lahaina. Lahaina Kaanapali & Pacific Railroad: two 2-4-0s (Porter, 1943); 12-mile, 1-hour round trip runs from Kaanapali resorts through cane fields to old whaling town of Lahaina. Operates daily 9:35 to 4:10. Fares: $6 adults, $3 children 2 to 12. L.K. & P.R.R., Box 816, Lahaina, Maui 96761; (808) 661-0089.

NEVADA

Virginia City. Virginia & Truckee Railroad: one 2-8-0 (Baldwin, 1916); 3-mile, 25-minute round trip from historic Virginia City passes old gold and silver mines (with optional tours). Operates daily 10:30 to 6 through September 30, weekends during October. Fares: $2.25 adults, $1 children 5 to 12. V. & T.R.R., Box 467, Virginia City 89440; (702) 847-0380.

NEW MEXICO

Chama. Cumbres & Toltec Scenic Railroad has two 2-8-2's (Baldwin, 1925); its 64-mile segment of old Denver & Rio Grande line (built 1880) passes through rugged Toltec Gorge, over bridges, through two tunnels. Train can be boarded at Chama or Antonito, Colorado, daily at 10 through October 10. The 6½-hour round trip goes to a lunch stop, then returns. Fares: $24 adults, $9 children 11 and under; reservations suggested. C. & T.S. R.R., Box 789, Chama 87520; (505) 756-2151.

OREGON

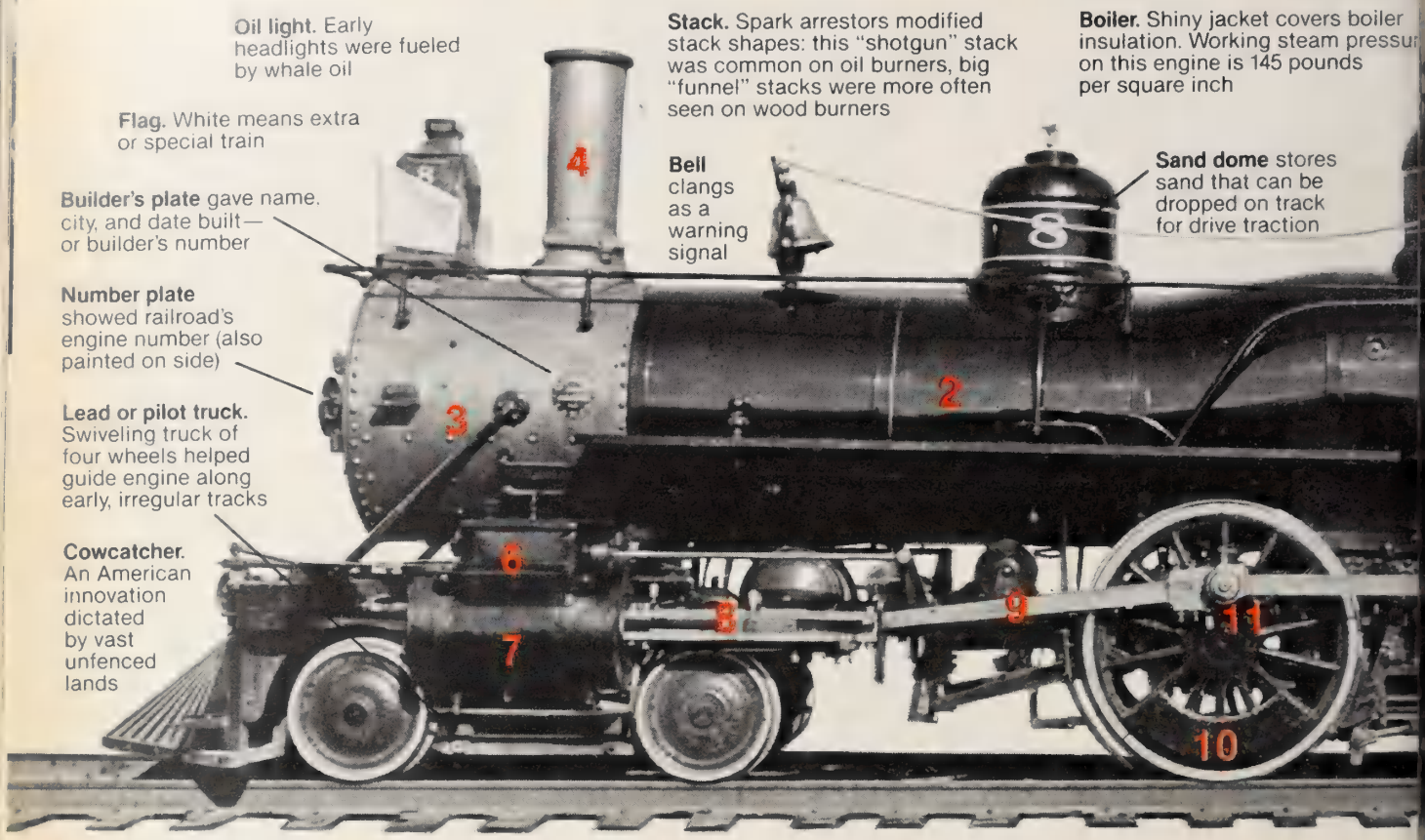
Baker. Sumpter Valley Railroad's 2-truck Heisler (1915) takes you on 8-mile, 1-hour ride through old gold dredge tailings. Train operates weekends 11 to 5 through September 26. Fares: $3 adults, $2 children 12 and under. S.V.R.R., Box 654, Baker 97814; (503) 894-2268, weekends.

Cottage Grove. Oregon Pacific and Eastern Railway Company: one 2-8-2 (Baldwin,

LARRY BULLIS

Engine smokes *past diners next to Tenas Creek and Eastern Railroad*

From pointed cowcatcher to eight-whe



The 12 steps of burning, steaming, turning . . . how an old-timer works

Technology marvel of the 19th century, the steam locomotive came in many sizes and configurations. By far the most popular was the standard eight-wheel, or American, engine. It had power to haul freight or passengers, stability on uneven track, and an elegant simplicity of design that made it inexpensive to build and easy to repair. It was the locomotive that settled the West.

Steam engines are often categorized by wheel arrangement: number of small lead wheels, big drive wheels, smaller wheels under the cab. Powerful cab-forward 4-8-8-2's (16 drive wheels) were among the last operating steam engines on the Southern Pacific after World War II.

Locomotive number 8 pictured above is a classic 4-4-0 American, built in 1888 by the Cooke Locomotive and Machine Company of Patterson, New Jersey. With tender it is 50 feet long, weighs 41 tons, and can easily pull three times its weight. It now operates on special occasions at the California State Railroad Museum in Old Sacramento.

Here's how this basic steam locomotive works: Wood, co or oil burned in the *firebox* (**1**) heats air; smoke and air a drawn (by chimney effect of stack) into tubes running throu the *boiler* (**2**), where it in turn heats surrounding water. H air and smoke from boiler tubes mix with exhaust steam in t *smoke box* (**3**) and are sucked up the smokestack (**4**).

The *steam dome* (**5**) has a throttle that controls flow of stea from boiler through a "dry pipe" to the *steam chest* (**6**). Th valved box alternately admits charges of live steam at ea end of the *cylinder* (**7**); the steam pushes a piston forward a backward.

The *crosshead guide* (**8**) keeps the piston rod straight as drives the *main rod* (**9**), which turns the drive wheels (1 Hand-fitted *rod-end bearings* (**11**) are at critical, frequent oiled joints linking *connecting rod* (**12**) to crank pins on ea drive wheel.

1915); 35-mile, 2-hour ride follows the Row River, passing Dorena Lake and logging operations. Runs weekdays at 2, weekends at 10 and 2 through Labor Day. Fares: $6.90 adults, $3.45 children 2 to 11. O.P. & E.R.C., Box 565, Cottage Grove 97424; (503) 942-3368.

UTAH

Heber City. Heber Creeper uses one of five locomotives: 2-8-2 (Alco, 1930), 2-8-2 (Baldwin, 1926), 2-8-0 (Baldwin, 1907), Model NW-2 (1940), 2-6-0 (Baldwin, 1901); 36-mile, 3-hour ride through the Wasatch Mountains and along the Provo River, winding up at Bridal Veil Falls. Departs daily at 11 and 3 through Labor Day then weekends through October 11. Fares: $7 adults, $3.50 children 3 to 12. Timpanogos Scenic Railway, 600 W. 100 South, Heber City 84032; (801) 654-2622.

WASHINGTON

Ashford. Tenas Creek and Eastern Railroad has a 2-truck (Heisler, 1910); ½-hour ride on a ½-mile track includes guided tour of a small logging museum. Weekends through Labor Day, noon to 5:30. Fares: $3 adults, $2 for children ages 6 to 17. T.C. & E. R.R., Box 113, Ashford 98304.

Elbe. Mt. Rainier Scenic Railroad: 3-truck (Heisler, 1930) and the 3-truck (Climax, 1928) pictured on *Sunset's* cover; 14-mile, 2-hour ride along the south slope of Mount Rainier, past farms and forests, and across two bridges. Runs Wednesday through Sunday, 10:30 to 1:45 weekdays and 9:30 to 3 weekends through Labor Da weekends only rest of month. Fares: $5 adults, $3 children 2 to 12. Elbe Station, Box 921, Elbe 98330; (206) 569-2669.

Snoqualmie. Puget Sound & Snoqualmie

nder . . . key elements of a 19th-century iron horse

am dome has "pops" ety valves) and familiar stle on top

Cab. Fireman (who must know route to anticipate when to stoke or bank the fire) sits on left, engineer sits on right

Tender like this one carries 2,800 gallons of water; helpers sit on 1,073-gallon oil tank

Brake gear (between large drive wheels). Engines of this period had the first air brakes. Before, brakemen hand-tightened brakes on each car—a risky job. One expert estimates that as many as 3,000 brakemen lost their lives each year in the late 1870s

Arch bar truck was common wheel truck for tenders and freight cars of the era

lley Railroad: one 2-8-2 (Baldwin, 1922); nile, 45-minute trip with views of Mount Snoqualmie Falls, and the lower oqualmie Valley. Operates weekends and lidays 1 to 5 through September. Fares: adults, $2 seniors and ages 5 to 15. . & S.V.R.R., Box 459, Snoqualmie)65; (206) 888-3030.

coma. Camp Six Logging Exhibit: one ruck Shay (Lima, 1929); 1¼-mile, minute ride around old-time logging ibit. Operates weekends and holidays m 11 to 6, through Labor Day. Fares: adults, 50 cents for seniors and children and under. Camp Six, Point Defiance k, Tacoma 98407; (206) 752-0047.

kersham. Lake Whatcom Railway npany: one 0-6-0 (Alco, 1907); 4½-mile, -hour ride through Cascade foothills oute built for hauling coal and later d for logging. Fares: $6 adults, $3 dren under 18. L.W.R.C., Box 91, Acme 20; (206) 595-2218.

vesdropping on whistle talk

ore radios, about the only way engeers could communicate with brakeen, conductors, and other trains was ough the steam whistle. Over the rs, some fairly uniform "whistle talk" als evolved.

o long toots means start or release kes. A long and short means warning. ee short toots when train is stopped ns back up. One long whistle means roaching a station; a short one, apply kes or stop. A series of short toots ns danger, get off the track.

For further reading . . .

One excellent history is *The American Heritage History of Railroads in America*, by Oliver Jensen (Bonanza Books, New York, 1975; $12.95). For a technical look at early locomotives, see *A History of the American Locomotive*, by John H. White, Jr. (Dover Publications, New York, 1979; $12) The *1982 Steam Passenger Directory*, published by the Empire State Railway Museum (Box 666, Middletown, N.Y. 10940; $4.50 postpaid) lists steam trains, electric lines, and rail museums around the country. □

Glowing firebox *of coal-burning 2-8-2 is open for brief inspection by visitors to cab*

SUSAN BIDDLE

Summer's fruit bounty is here. Peaches, grapes, raspberries, strawberries, blueberries, honeydews, and cantaloupes are all at their prime, brimming with sun-ripened sweetness. Glorify these fruits by presenting them in crisp, lacy praline cooky baskets.

The fruit baskets start as cookies that spread thin and caramelize as they bake. Make cookies small or dramatically larger—it depends only on the amount of batter used. After baking, drape the flexible warm cookies over inverted glasses to shape; they quickly become crisp and rigid.

The critical step in shaping the cookies is in the timing. When the cooky comes right from the oven, it is so hot and stretchy that it pulls apart when moved. Let it cool just a minute until it firms slightly and will hold together, then shape as directed. If you wait too long and the cooky becomes hard, return it briefly to the oven to soften.

Cooled cooky baskets can be stored in airtight containers up to a week, or frozen for longer storage.

DARROW M. WA

Let hot cooky cool *just enough to hold together, then turn over on an inverted glass. Cup cooky around base of glass, flare out sides. Warm cooky may stretch slightly when shaped, making it thinner and more lacy*

Fruit-filled Cooky Baskets

- ¼ cup (⅛ lb.) butter or margarine
- ¼ cup *each* firmly packed brown sugar and light corn syrup
- 3½ tablespoons all-purpose flour
- ½ cup finely chopped nuts
- 1 teaspoon vanilla
- Vanilla or nut ice cream
- 1½ to 2 cups fruit, cut in bite-size pieces if necessary

In a 1- to 2-quart pan, melt butter over low heat. Add brown sugar and syrup. Cook over high heat, stirring constantly, until liquid boils; remove from heat and stir in flour and nuts until blended. Stir in vanilla.

Grease and flour 12- by 15-inch or 14- by 17-inch baking sheets (they must be flat, not warped). For each cooky, place 2 to 3 tablespoons of the batter about 8 inches apart on the sheet. (Depending on pan size and cooky size, you can bake only 1 or 2 cookies at a time.) If the batter has cooled and does not flow easily, evenly press or spread it out to a 3- to 4-inch circle. Bake in a 325° oven (you can bake on 2 pans at a time, staggering the pans in the oven and changing them halfway to ensure even browning) until a rich golden brown all over, about 12 minutes. Let cool on pan on a wire rack until cooky firms up slightly, about 1 minute.

When cooky edges are just firm enough to lift, loosen edges from pan with a wide spatula, then slide spatula under entire cooky to remove. Lift cooky—it should still be hot and flexible (somewhat stretchy), but cooled until firm enough move and not pull apart. Turn coo over and drape over a glass that measur about 2 inches across the bottom. W your hand, gently cup cooky around t base; make bottom flat and flare coo out at sides. (If cooky becomes too fir to shape, return to the oven a few mi utes until pliable.) Let shaped cooky co until firm, about 2 minutes. Gently r move. Repeat, using remaining batt and greasing and reflouring baking shee each time.

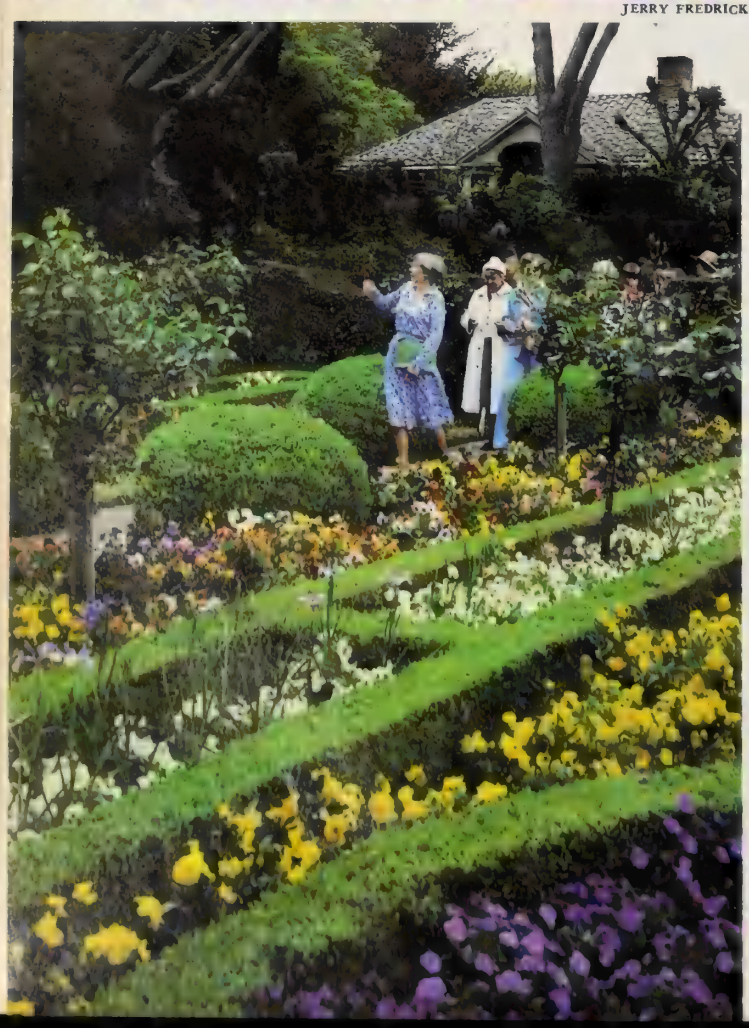
Use baskets at once, or store airtight rigid containers at room temperature f up to 1 week; freeze for longer storag To serve, place a small scoop of ice crea in each basket and top with fruit. Ser immediately. Makes 4 to 6.

Fresh fruit basket. It's just a crisp cooky

You mold it hot and soft from the oven. Move quickly. Your timing must be perfect

Praline *nut cooky basket is an edible sho for summer fruit. Break off pieces of crisp c to eat with cool ice cream and swee*

JERRY FREDRICK



Vine-covered teahouse *separates Sunken Garden from Chartres Cathedral Garden (left). Teahouse is used to display choice plants and arrangements from greenhouses and cutting garden*

DARROW M. WATT

Group tours *for house and garden muster in Filoli's forecourt (above). In lower photograph, docent discusses furnishings of main reception room*

Filoli

There's nothing else like it in the West: 16 acres of groomed gardens around a 36,000-square-foot stately home. August is a good time to visit

hat is Filoli? To say that it is a splendid untry estate near Woodside, about 25 iles south of San Francisco, is not arly enough. It is an opportunity—ique in the West—to walk through at fantasy called the "stately home" at very modest cost.

igust is a choice month to visit; reser-tions are easier to make than in hectic ringtime, when 5,000 visitors a month ir house and grounds. August sun ngs blazing color to the annual display ds (Filoli is a registered All-America t garden) and to the cutting beds in ir wire netting cages covered with ik and blue morning glories. More n 25,000 annuals are planted out each son by the 11 gardeners on the staff, ed by volunteers and student interns advanced students of horticulture rning practical estate management. terested students with 12 hours of hor-ultural courses may apply to the Gar-i Superintendent at the address given right.)

1975, Filoli was given to the National ist for Historic Preservation by Mrs. lliam P. Roth, along with a substantial owment to help support it. Additional ome is derived from gifts, bequests, l from admission fees for tours, which scheduled and conducted by the ends of Filoli, a volunteer support anization.

oli's unique quality is its blending of er and profusion. The 36,000-square-t house has a restrained Georgian (or art) exterior, and the immaculately omed garden is more formal than erwise, but nearly every view ends in ls or mountains.

hing is crowded, nor will it ever be; entire 654-acre estate lies within the restricted watershed of the San Francisco Water Department.

The 16-acre garden was designed by Bruce Porter and planted under the supervision of Bella Worn. Walls and hedges divide it into smaller, more comprehensible spaces, many framed by avenues of columnar Irish yews. Over two hundred of these trees direct the eye toward vistas and make deep green walls for many of the garden rooms. William Bowers Bourn II, for whom Filoli was built, grew the yews at his Grass Valley, California, property from seed collected in Ireland.

Touring the garden

The Sunken Garden contains a lily pool and a fine golden-leafed 'Sunburst' honey locust set off against the dark mountains. Beyond the teahouse and surrounded by a tall brick wall is the Walled Garden, itself a composite of several gardens; the most spectacular of them is the Chartres Window Garden, a re-creation in bright flowers and boxwood edging of a cathedral window. In summer, white and pink petunias blend into white and pink dahlias.

The Wild Garden shelters azaleas, camellias, ferns, and rhododendrons under tall oaks. From it, the tour moves through the Rose Garden, which contains over 500 bushes, to a high lawn at the south end of the garden. Extending northward is a view down a long avenue of Irish yews.

The return trip down a parallel path passes the beds of flowers for cuttings, the annual test plots, a long perennial border, a knot garden of herbs. After returning through the Rose Garden and the Walled Garden, the visitor may examine a collection of well-preserved horse-drawn vehicles in the Carriage House. At the exit, a shop offers plants, books, and other reminders of Filoli.

Touring the house

At present only the main-floor rooms are included on the tour, but there is plenty to look at. The ballroom is most impressive, with its murals of Irish scenes, gold-leaf trim, and crystal chandeliers. (Mr. Bourn loved Ireland, and for a time owned Muckross Castle near Killarney; it is shown in the murals. He also owned the Empire Mine in Grass Valley—witness the lavish use of gold leaf.)

Tour reservations

Make reservations by calling (415) 364-2880 or by writing to Friends of Filoli Center, Cañada Road, Woodside, Calif. 94062. Cost is $5 per person; children under 12 are not permitted. Docent-led tours (Tuesday through Saturday, mid-February to November) form at 10 and 1 (9:30, 10:30, and 1 during April and May) and last from 2 to 2½ hours. Reserve early, especially for Saturday tours.

Classes, lectures, concerts

In addition to its tours and garden internship program, Filoli also holds classes, lectures, and concerts. Details are listed in the bulletin circulated to members of the Friends. Flower arranging courses have been especially popular.

If you would like to join the Friends of Filoli, write for an application; you will be welcome. Membership fees vary, with $25 the basic rate ($10 for seniors).

To reach Filoli, take Edgewood Road west from Interstate Highway 280 to Cañada Road; turn north and drive 1.3 miles to the Filoli entrance. □

TIM FUL

Elbow-deep *in cool brown mud, she squeezes through truck-tire tubes tied together with clothesline-type rope*

"Mighty Mud Mania"

Messiest, muckiest race in the West. Every summer in Scottsdale. For other communities, maybe a fund raiser or strictly for fun

It's yukky, oozy, gooey—but deliciously cool, especially on a scorching summer day. It's also the stuff of what one 7-year-old calls "the funnest event of summer." The joy of mud is why the parks department in Scottsdale, Arizona, celebrates each summer with Mighty Mud Mania (the seventh annual event is July 30 from 10 to 3 at Chaparral Park, 8000 E. Chaparral Road).

What started as a gimmick to advertise a detergent has become a city-operated obstacle course that's proved irresistible to some 750 boys and girls, age 7 to 13, who can't wait to race the clock and each other—climbing, crawling, jumping, and slipping along ropes, down slides, through tire tubes, and across bales of hay into pits of fresh, wet mud.

Competition is by age, and three contestants start at a time. Harder than it looks, the course can tucker out the toughest competitors in the 1 to 3 minutes usually required to complete it. And even the most fastidious emerge looking like Charlie Brown's friend Pig Pen. Rewarding each dripping mud-caked, often unrecognizable contestant at the finish line is a good hosing off from the local fire truck—followed by medal awards for fastest finishers and a free afternoon swim for all in Chaparral Park's pool.

Larry Salzman, age 10, entered last year because "it sounded like a good way to cool off." Added Charlie Kilgore, 8, "I did it because I wanted to get dirty."

How to do it . . . rope, straw bales, tire tubes, lots of big mud pits

Your community or organization mi enjoy sponsoring a similar event t summer—as a fund raiser or just for f Here are some tips passed along Scottsdale's Parks and Recreation D partment (two civic or sports clubs sponsor the event each year).

Our diagram suggests how each obsta is built. For a cost analysis and constr tion help, write for a Mud Mania kit fr Terry Erickson, Recreation Coordinat Vista del Camino Recreation Cent 7700 E. Roosevelt St., Scottsdale, A 85257; or call (602) 994-2330.

Several days before the event, organiz chalk out the course and dig the p

Leap off straw bales *into mud pits is in full view of spectators. Mud depth is 18 inches in all but last pit, where 3-foot depth guarantees muddy exit for all*

Gooey all over, *he emerges from dive through tube. Adults stand by to hose off face so he can see again*

A nimble trip *along cargo net means only feet hit the mud here, if the contestant is lucky*

Finish line *is in sight after crawl through soupy tunnel made from plastic garbage cans*

ith the help of a backhoe. An auger is sed to secure the 5-foot-tall 4-by-4's at steady most props.

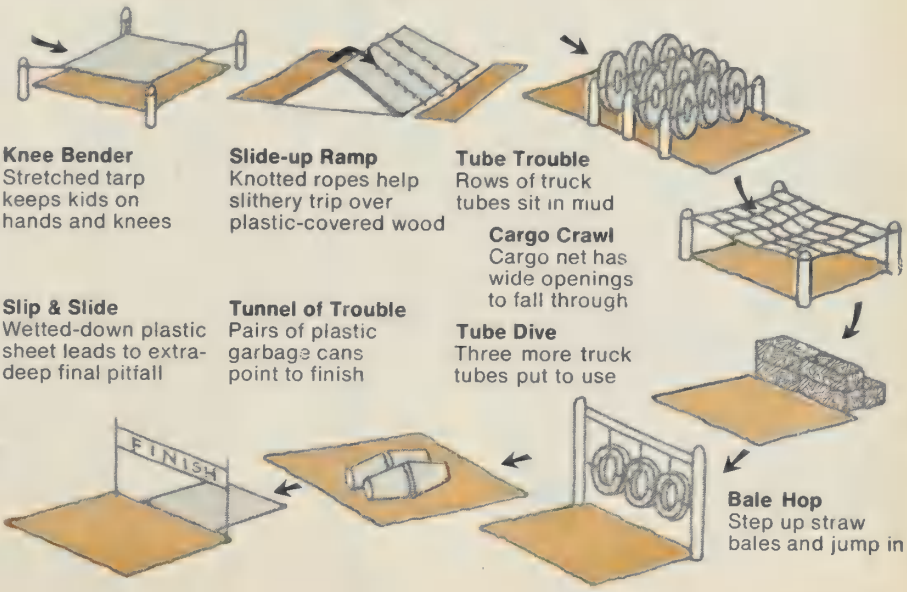
o eliminate mud odor, 80 tons of clean, ne-textured dirt (riverbottom silt is best) ls all pits (cost would be about $450 ere if bought and delivered commerally, but Scottsdale city finds and transrts its own dirt). One day before the ce, water is added and mixed until the ud is the right oozy consistency.

uring the event, adults stand knee-deep mud to shout encouragement and ake sure no contestant gets stuck or irt. Hoses are kept handy at pits where oungsters might plunge in face first.

fterwards, the mud is allowed to dry veral days before grassy sod is replaced grass seed sown.

otal cost in 1981 was $570, including a s to pick up kids around the city; $607 s also donated to provide a T-shirt for ch contestant. □

8 muddy obstacles on the Scottsdale course. Pits are 10 feet wide, 6 to 16 feet long



Step in from the street to plants, ponds, shade, and privacy

Here's what happened in La Jolla when a landscape architect recaptured the front yard for outdoor living

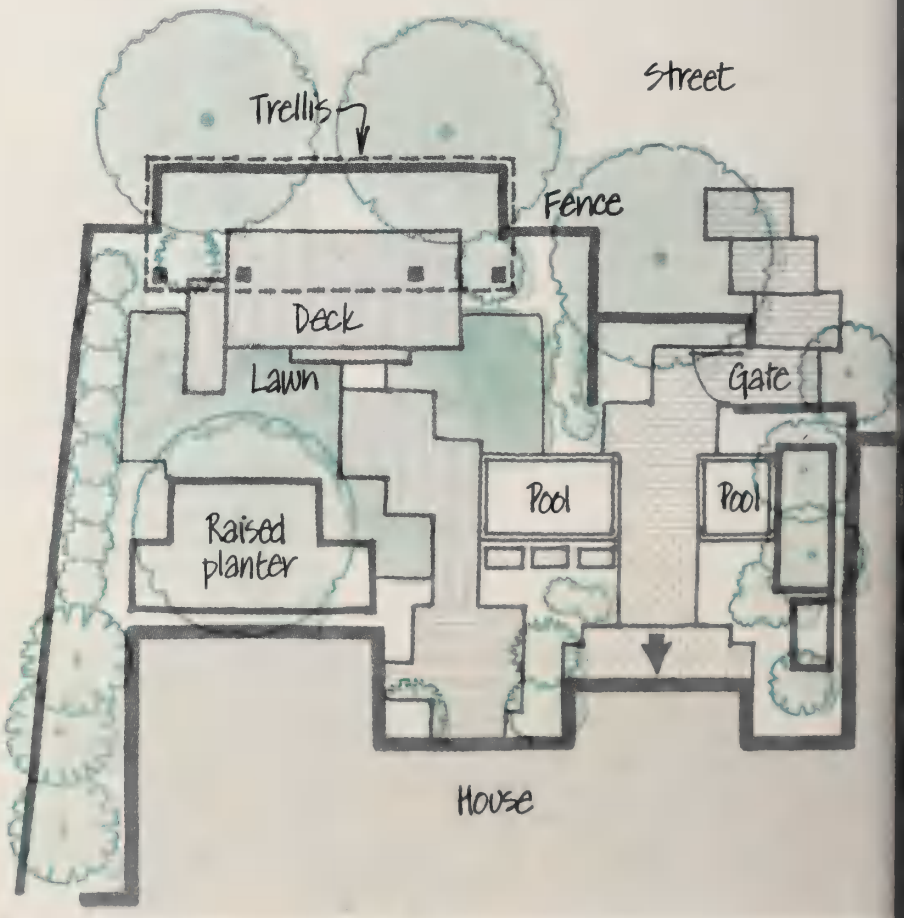
The Mediterranean tradition of the enclosed courtyard on the street side of a villa is echoed in the front-yard remodel of this house in La Jolla, California. Because the back yard was precipitously steep and buffeted by steady sea breezes, landscape architect Michael Theilacker of Kawasaki/Theilacker Associates recaptured the front yard for private outdoor living. By using the mass of the house as protection from the wind and by surrounding most of the front yard with a solid fence, he created a becalmed patio for outdoor entertaining. He even provided two fountains in reflecting ponds to mask sounds from the street.

The streetside façade is softened by slight berming, ground cover of junipers and bedding plants, and several tall, multistemmed trees. The 7-foot-tall fence, set 10 feet in from the street, steps around the new courtyard. Shiplapped 1 by 8's, stained to match the siding of the house, cover both sides of the fence.

Dominating the court is a 10- by 28-foot trellis that covers most of a 12- by 16-foot deck. Offset 44-inch-wide pads lead from the house to the deck. Theilacker kept the pads and deck close to the ground and repeated their rectangular rhythms in the surrounding planters, narrow peninsulas projecting from the deck, and brick pads leading from the street to the front door.

The front of the long trellis connects to four 6-by-6 posts that rise from the deck; the back posts are part of the fence fram ing. Since the deck stops short of th fence, there's room for the feather wide-spreading New Zealand tree fern that contrast with the hard-edged trell and fence.

What appear to be large beam ends alon the front of the trellis are the capped end of 2-by-10 joists that flank the posts i the fence and front. The hollows hous low-voltage lights (see picture at left).



Rectangular shapes *are repeated in wood, brick, pools, planters, and lawn*

Double 2 by 10's *flank post. Holes are for recessed, low-voltage lights*

DAVID STUBBS

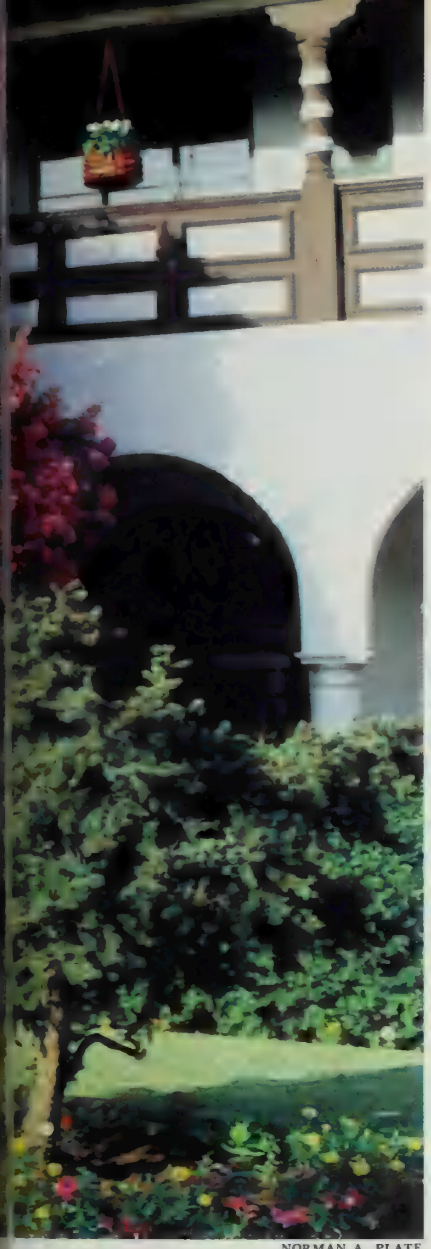
ivate front yard *uses fence and trees as screen from street (lower picture). Staggered wooden decking ds lead from house, past shallow reflecting pond, to partially covered deck. Dichondra lawn seldom needs mowing*

A summer spectacle, *50-year-old 'Rubra' spreads a brilliant canopy nearly 40 feet wide. The color is a crape myrtle classic*

Crinkled, crepe-papery *flowers give the plant its name. This is 'Majestic Orc*

Crape myrtles laugh at August

The hotter the better.
Now is their peak bloom time,
planting time, choosing time



NORMAN A. PLATE

Showy street trees: *'Purple' and bright 'Alba' flank this boulevard. Without pruning, they've reverted to big, low-branching shrubs*

BILL ROSS

Four more kinds and colors: *nursery cart displays blood red 'Cherokee', blush pink 'Near East' to its right, 'Petite Snow' in the middle, 'Petite Pinkie' below*

he climates *where crape myrtles ourish are the low-elevation terior valleys of northern California limate zones 7 to 9, and 14 the Sunset Western Garden Book) d Southern California (zones 18 to 21), d the low desert areas of alifornia and Arizona (zones 12 and 13)*

Ice-cream-colored flowers that defy simmering heat make crape myrtle the star of our low inland valleys. In July and August, when other plants lose luster, crape myrtles (*Lagerstroemia indica*) are just reaching their zenith. It's a good time to enjoy them and the best time of year to buy and plant them.

If you live in the zone outlined in the map at left, you live in the special Western climate of long, hot, fog-free summers where crape myrtles thrive. They flag your attention everywhere—lining city streets, exploding in front yards, and waving bright trusses over back fences.

Well-stocked nurseries now carry the greatest variety of crape myrtles ever. There are familiar full-sized kinds that become small trees (the big pink, purple, and white ones pictured above), dwarfs that make small to medium shrubs (see the two 'Petites' on the nursery cart), and a new hanging basket miniature.

All of these come in the full range of crape myrtle colors: red, rose, pink, soft pink, rosy orchid, lavender, purple, and white. Shades vary subtly, which is why it's best to select crape myrtles now, when you can see the color. The blooming season is long—starting as early as June and going well into September or even October—but don't delay: the nursery's supply can dwindle rapidly as soon as plants put on their show.

In spite of their delicate appearance, crape myrtles are easy-care plants that work hard in a garden. On pages 146 and 147, we show more ways to show off their shapes and give details on pruning, watering, and year-round care. A chart lists 42 kinds Western nurseries grow (and one more from seed) and tells how the different sizes perform and whether they're easy or hard to find; gardeners in borderline zones (15, 16, 22, and 23) will find suggestions here, too. □

ıese-inspired *lanterns diffuse shelter candles. Handles ɔu move lights without ·ing or burning fingers*

Magic lanterns

A trip to the lumberyard and fabric shop provides all you need

ıe flickering glow from these candle ıterns enhances any summer party. ;e them to light an entry or along paths, cks, or patios.

ır design was inspired by garden lan- ns we saw in Japan—but modified for ıterials from Western lumberyards and ɔric shops. Each lantern holds one to ır votive candles (in glass cups), so u can vary the level of light.

st is about $9 each, or less if you make 'eral. Candles are extra.

ıterials

ch lantern has an octagonal pine base ɔporting two vertical dowels topped by ross-piece handle. A pine-framed fab- -wrapped shade slides up and down on dowels.

r the base, you need a 7¼-inch square from 1-by-8 pine and two 22-inch gths of ⅜-inch-diameter dowel.

r the shade frame and handle, buy 21 t of pine lattice (¼ by 1⅜ inches); eight 16½-inch strips for the sides the frame, sixteen 6⅛-inch strips for top and bottom, and one 6½-inch and 7½-inch strip for the handle.

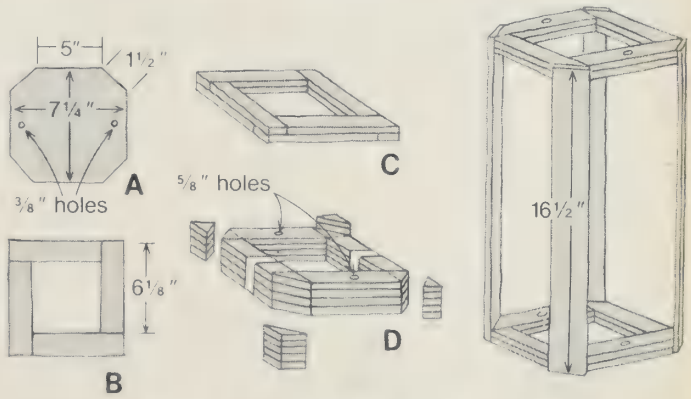
r the shade cover, buy 1 yard of 22- h-wide medium-weight nonwoven in- facing. (Interfacing will burn, but the tern base is so stable there's little ıger of tipping.) You'll also need white e and masking tape.

king the lantern

t base shape as in sketch A. For ıble-layered bottom of shade frame, ition four 6⅛-inch lattice strips as in tch B; spread these strips with white e, then add four more strips (sketch Repeat for top of frame.

en dry, stack and tape the two frame s. Cut each corner at a 45° angle, ating four 1½-inch flat spots (sketch Sand.

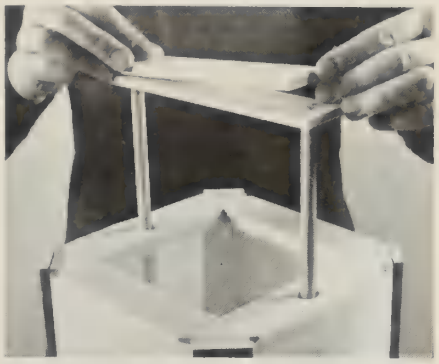
rk centers of two opposite sides and l a ⅝-inch-diameter hole at each nt. Position stack over base and mark ter of holes on base. Remove stack l drill a ⅜-inch-diameter hole half- through the base piece at each point rked. Glue dowels into base holes.



Pine octagon *(A) serves as base. For shade's top and bottom, strips of lattice, arranged in double layers pinwheel-style, form squares (B and C). Glue and tape to hold, then trim at corners (D)*

Brush *glue on frame's side strips, then fix interfacing to frame. Align edges at one end; trim off excess at opposite end*

Apply *glue thickly on interfacing over frame's vertical strips; glue on outer strips. Tape verticals to base until glue dries*



Fit *frame over dowels. For handles, drill ⅜-inch holes in 7½-inch strip; glue to dowels; center and glue top 6½-inch strip*

DARROW M. WATT

Light *candles by sliding the shade frame up the dowels*

Set one 16½-inch strip on a flat surface and spread white glue at each end. Carefully glue one corner of each end of shade frame over strip. Spread glue on ends of a second 16½-inch strip and glue to opposite positions on frame's end pieces; tape until glue dries. Glue on the two remaining 16½-inch strips.

The fabric application is shown in the photographs above. □

Ultimate barbecue triumph!

Spit-roasting a whole pig is not for the faint of heart. You must make a serious commitment of time, effort, and funds to pull off this project successfully. But once through the following steps, the resulting golden brown, succulent pig makes a memorable show and a grand feast for a large crowd.

Briefly, this is what you must do: Find a source and order a pig; the wait may be about a month. Rent a spit or build your own—we give directions on page 96. Select and prepare the cooking area (with wind and other weather protection, if needed). Transport the pig home and secure it on the spit. Keep it cool until time to cook.

Be prepared to get up very early in the morning in order to have the pig ready to eat by late afternoon or evening. Cooking time is about 12 hours.

Once you actually start working with the pig, you need at least one reliable, reasonably strong partner—and ideally, someone to relieve both of you now and then at the spit site.

Why choose spit-roasting?

Pit-roasted pig is the great Hawaiian specialty, and the results are indeed delicious. But digging the pit is no small chore. Spit-roasting has some worthy pluses. The rotating pig self-bastes, creating moist, tender, sweet meat, while the skin grows crisp and crackling. You have to stay to manage the fire, but you can more accurately determine the point of doneness than with pit cooking.

To market—to market

Our directions are designed for a 100-pound dressed pig (dressed means cleaned and ready to cook). When ordering, specify a 100-pound or *less* pig. If you don't, you're apt to get a significantly larger pig—we once got one that weighed 150 pounds. Allow about 1 pound per serving: a 100-pound pig serves 100 people.

A meat market or supermarket that cuts up carcasses can generally help you get a pig, but you may have to wait up to a month for an animal the size you want. Inquire about the price and shop around; we were quoted $1.89 to $2.65 per pound ($189 to $265 for a 100-pound pig). If the pig arrives early, arrange for the market to keep it in its refrigerator.

Home again—home again

Before you pick up the pig, prepare the fire bed as directed below and have a cool place to store the pig. Generally, the market will not wrap the pig, so you'll need to bring something to protect your car and someone to help you transport it (step 1); this can create a bit of a stir if there are onlookers.

You'll want to put the pig on the spit as soon as you get home; pick it up as late in the day before the party as possible.

Preparing the fire bed

Set up the cooking site; choose a spot that is, or can be, protected from wind and rain.

You'll need the following equipment: a shovel, the spit roasting equipment, 20 pounds of sand, 14 concrete blocks (6- by 6- by 12-inch size), about 120 pounds of long-burning charcoal briquets, fire starter and matches, a garden rake, long-handled tongs, potholder mitts, and a box of baking soda.

Clear a level 3- by 5-foot area down to the soil. Down the center, spread a 1- by 3-foot rectangle of sand.

Set spit supports at the 3-foot ends of the cleared rectangle and put spit in position. Adjust supports so that the spit is 20 to 24 inches above the ground and centered over the rectangle. To help reflect heat, line the perimeter of the 3-by-5 area with concrete blocks (open sides up) to make a solid wall.

Spit-roasting equipment

You need a spit that's at least 7 feet long to hold the pig, spit forks to keep the pig from slipping around on the spit, spit supports to hold the spitted pig over the heat, and a means to turn the spit (manual or motorized).

At some shops that sell barbecue equipment, you can rent a spit for $30 to $1[illegible]. Reserve it well ahead, and, before leaving the shop, make sure you have all the parts and check them for defects. One spit we used broke in the center because a previous renter had drilled some holes in the rod.

Or you can build equipment as simple as the manually operated spit on page [illegible] or as elaborate as the motorized grill shown on page 68. Since you have [illegible]

GLENN CHRISTIANSEN

1. *Carrying is a task for two. Dressed pig comes cleaned, often unwrapped, ready to cook*

2. *Securely clamp improvised spit fork impaled in rump; legs are tied to T-bar of homemade spit*

3. *Netting made of string holds skin in place as pig cooks; wires hold spine against spit inside pig*

A whole pig

DARROW M. WALL

toast to the roast! *The whole pig, bedecked with parsley d flowers—and of course, the apple—is the hit of the party*

Crisp crackly skin *makes warm munchies to soothe appetites while the carvers get organized*

tch the pig throughout the cooking, a nual spit is almost as convenient as a torized one.

tting the pig: a team operation

is essential that the pig be secured tly to the spit so it holds steady as it ates. Be ready to start when you get pig home; allow at least 2 hours.

st insert the spit through the mouth l out the tail of the pig; one person hes, the other guides it along the kbone. The spit should not pierce bone or meat. Make sure pig is centered on length of spit (on our home-made equipment, one of the T-bars will go into the mouth).

Next wire spine to spit. You'll need three 24-inch lengths of heavy wire (such as baling wire), an ice pick, and pliers.

At mid-back, make a hole on each side of the spine with an ice pick, poking from rib side out through the skin. Working from the skin side, force the two ends of the wire through the holes into the pig cavity. With pliers, twist wire ends together over the spit, securely uniting spit and spine (the spine curves and may not actually touch the spit). Position the other wires about 12 inches on each side of the center wire.

Force metal spit forks firmly and securely into thickest parts of hind and shoulder ends; clamp or wire spit forks tightly to secure to spit (step 2).

Tying the pig

Use double strands of heavy cotton string to tie front and rear legs to the spit (step 2). Because legs are stiff, this task may require a little brute strength.

To hold skin in place as it cooks, make a

4 *Ice-filled plastic saddlebags, wet towels, and plastic sheet cover keep spitted pig cold overnight*

5 *Rake or stir hot coals regularly to bring them to surface and knock off ash; add briquets regularly*

6 *Pull spit from pig after spit forks are removed. Pans beneath pig catch drippings, hold garnish*

string net over the rib and loin sections, much as a rolled roast is tied (step 3). Elevate one end of the spit (or suspend spit between two counters, or set it on spit supports) so you can pass the string under and around the pig. First tie string tightly at 3-inch intervals around body between the front and rear legs. Then wrap strings perpendicularly to make 3-inch squares.

Gardening gloves *and an electric knife are carving aids for this pig roast in Pauma Valley, north of San Diego*

TERI SAND

Check the setup

Once the pig is spitted and tied, it's a good idea to position it on the spit supports over the fire bed and rotate it, just to make sure the equipment is in working order and that the pig is balanced on the spit. (Adjust the spit forks or tighten netting if necessary.) A well-balanced pig that doesn't shift its weight on the spit is essential if your equipment is motor-operated.

Then move the pig to its overnight storage place.

Keeping the pig cool overnight

Spread out a clean sheet of plastic (such as a large plastic paint drop-cloth) or large sheets of paper in a cool place (such as basement or garage) where the pig can be protected from animals and insects. Count out 20 to 24 plastic bags, 8-quart size, and fit together to make 10 to 12 double-thick bags. Fill each ⅓ full of ice cubes, then tie the top of two ice-filled bags together to make "saddle-bags." Drape bags over the pig, spacing them along its back (step 4). Saturate 6 to 8 dish towels with cold water and spread over pig to cover. Cover pig with another large sheet of plastic. If you follow these steps, you can safely keep the pig for about 12 hours; replenish ice if it melts totally.

Roasting the pig

Start the charcoal about 1 hour before you plan to put the pig over the fire (12 to 13 hours before you plan to serve). Pile 10 pounds of briquets at each end of the fire bed and ignite. When coals are ash-covered and glowing hot, set the spitted pig on the supports. Rake coals into an even layer underneath the pig. Begin rotating the motor-operated spit, or manually rotate the pig a quarter-turn every 5 to 10 minutes. Continue rotating during the cooking process.

After about an hour, fat will begin to drip. When this happens, rake briquets from directly beneath the pig to expose sand, which catches the grease and reduces the potential for flare-ups. At this point, arrange the coals so most of them are underneath the thickest parts of the pig. A 6- to 8-inch-wide band of coals along the sides of the pig is sufficient to cook the center.

To keep skin from being charred, have a box of baking soda nearby to smother grease fires.

Keeping the fire hot

About every ½ hour, rake briquets to bring ash-covered coals to the surface and knock off ash (step 5). Maintain heat by adding 10 pounds of briquets about every hour; make a single row along sides and distribute the balance at each end.

How long to cook the pig

After about 10 hours, fat will cease dripping excessively; at this point, rake hot coals back beneath the pig, concentrating heat under thighs and shoulders. The internal temperature in the thickest part of the animal (inside the thigh or neck section of the shoulder) should register about 140° on a meat thermometer. We found a rapid-reading cooking thermometer extremely useful for checking the temperature in several places. Be sure the thermometer does not touch bone.

In all, cooking takes 10 to 12 hours. Because of many variables that affect the cooking rate (a breeze or cool weather slows it down), timing is not exact. The accepted serving temperature for pork is 170°. However, a spit-cooked pig exposed to the air often reaches only 140° to 150°; if cooking continues at this temperature for at least 1 hour, the meat is both very safe and palatable to eat. The Pork Industry Group (a national board for pork producers) and food technologists at the University of California, Davis, concur that trichinosis, a dangerous organism (rarely harbored in commercial pork today), is destroyed w the internal temperature exceeds 1 and is held there for at least 1 hour.

If the pig is ready before the meal, it be kept warm on the spit at least ano hour after it is done and still rem moist. Rake coals from beneath pig pig will cease cooking but stay hot.

From the fire to the feast

Set the serving table as near the fire as possible—it's easier to move the ta with the pig on it than it is to move hot pig and spit. Set large shal rimmed baking pans down the center the table, making a row about as l as the pig; pans will catch juices.

Lift pig from spit supports (use mitt holders) and set on pans on table. strings to free legs. Loosen and pull spit forks, then slide the spit out of (step 6).

Snip strings and pull off the netting; round pig with 8 to 10 bunches of p ley and, if desired, garnish with flow Don't forget the apple for the mouth.

Carving the pig

Pull off skin and break crisp parts i small pieces; pile on a platter to eat w salt and liquid hot pepper seasoning.

Separate head at shoulders and set o platter. Although the head may m some queasy, the tender meat of jowls is considered by others to be a pri

Bend thighs to locate hip joint and through joint; place hams on large pl ters. Bend forelegs to locate shoul joint and cut through joint; put w hams on platter. Slice meat from bone

To remove loins, cut along each side the spine to free meat and lift off to pl ter; slice. Break or cut off rib bones.

As to the rest of the party . . .

Most people we interviewed who put pig roasts found the pig occupied much time and attention that they signed guests to bring the rest of t menu—typically salads, cold vegetabl bread, dessert, and beverages.

All agreed that the menu and presen tion should be simple, easy to serve, a flexible in order to coordinate with t cooking time. Keep in mind that an i formal setting is most in keeping wi consuming a whole pig.

Elaborate equipment, *such as this built-in barbecue, may evolve if pig roasts become an annual effort*

RICHARD AUDSLEY

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GREEN-WINGED TEAL

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by Basil Ede

An exciting new series of twelve collector's plates
by Europe's foremost wild bird portraitist.

Each plate bearing an original work of art created by Basil Ede exclusively for this collection.

Each decorated with a border of pure 24 karat gold.

Available by subscription only.
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August 31, 1982

THE ARTIST. Basil Ede, of Sussex, England, has been called "the outstanding wild bird portraitist of his generation, and perhaps of his cen-ry." He is widely regarded as Europe's ost distinguished bird artist. Indeed, e authority of his style and the distinc-on of his work have profoundly influ-ced the way birds are portrayed by tists throughout the world.

After notable exhibitions in London d other major European cities, Basil le was honored by a one-man show at e Smithsonian Institution's National llection of Fine Arts in Washington, C. This was followed, during recent ars, by important exhibitions at New rk's famous Kennedy Galleries.

His paintings have been commissioned the National Audubon Society and the orld Wildlife Fund, among others. And is represented in many public and pri-te collections, including the Smithso-an Institution and the collection of RH Prince Philip, Duke of Edinburgh.

Now, at the height of his career, Basil le has created an important new series superlative works of art in fine porce-n — *Water Birds of the World*. Twelve

CANADA GOOSE

llector's plates portraying the wild auty and majesty of water birds in pre-se, authentic detail — with Ede's inimi-ble flair for color and composition.

Each of these twelve plates is, in itself, masterful work of art. Together, they rm an incomparable collection that will a proud acquisition for every sub-

WOOD DUCK

scriber . . . a focus for conversation and admiration when displayed in the home.

THE WATER BIRDS PLATES. The plates will be large in size — 9 inches in diameter — to provide full scope for Ede's finely detailed portrayals of water birds in their natural habitat.

And they will be crafted under the supervision of Franklin Porcelain in Japan, by craftsmen schooled in the delicate, demanding art of fine porcelain.

Franklin Porcelain has devoted more than two years to meticulous preparation for the issuance of these plates, and every detail will be of the highest quality. For example, each plate will be hand-decorated with a border of pure 24 karat gold. And each plate will incorporate as many as sixteen separate ceramic colors.

Ede's very beautiful and marvelously accurate works of art — created especially for this collection and available only on these fine porcelain plates — make this an acquisition that will be enjoyed and prized by all who love the beauty of birds, of art, and of porcelain.

THE SIGNATURE EDITION. The first edition of this collection will be a special Signature Edition. Each collector's plate in this limited edition will bear Basil Ede's signature on the back in 24 karat gold. This signature will appear *only* on the plates in this first edition.

The plates in this unique edition will be crafted exclusively for individual subscribers. The edition is available only until the end of 1982. And the limit of one collection per subscriber will be enforced without exception. Thus, the total number of sets of the Signature Edition will be forever limited to the exact number of original subscriptions entered during the offering period.

ADVANCE SUBSCRIPTION DEADLINE: August 31, 1982. The Signature Edition will be issued to subscribers at the convenient rate of one plate every other month. The original issue price of just $55 per plate is payable in two convenient monthly installments of $27.50 per month. Each plate will be accompanied by specially written reference material and a special wall mount. And a Certificate of Authenticity will accompany each collection.

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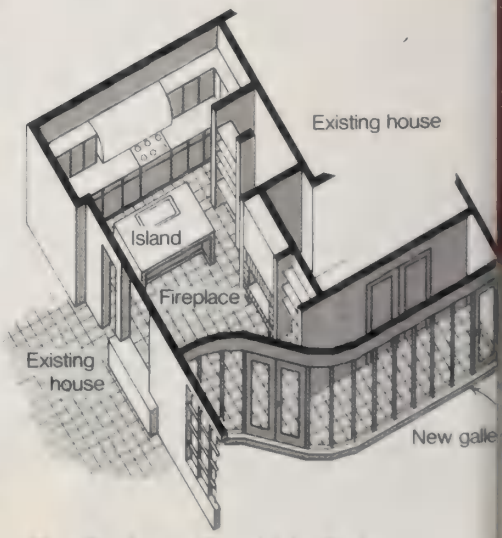
Over the old patio, a new curvy-wall family kitchen

Stools line up *at island counter where kitchen's outside wall once stood*

DAVID STU

Floating ferns *recede around corner leading to the den, turning part of the family room addition into a plant-hanging gallery*

Glass curve *extends kitchen outward from original hip roof, links family room with den, and saves existing dining room window at far left*



New fireplace *and work island edge the family room, once a patio*

Enclosing part of a patio made it relatively easy to add a family room to the Applebaum house in San Mateo, California.

Architects Jacques de Brer and John G. Ellis removed the wall between the kitchen and adjacent patio, enclosing 300 square feet of new space with a tempered glass wall. The new wall curves outward to create a wrap-around glass corridor to an existing den.

The quarry tile floor covers a new concrete slab foundation. Three steel poles resting on steel plates under the tiles provide extra perimeter support for the new almost-flat roof, which tucks under the gutter at the edge of the shingled roof.

Inside, a large island creates a low-pr file partition between the kitchen wo area and the new family room. Th added space provides room for a bri fireplace, a TV viewing area (with so against one wall), and a round dini table.

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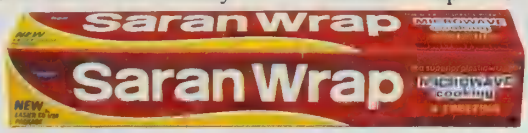

SARAN WRAP. TOUGH ENOUGH FOR THE MICROWAVE.

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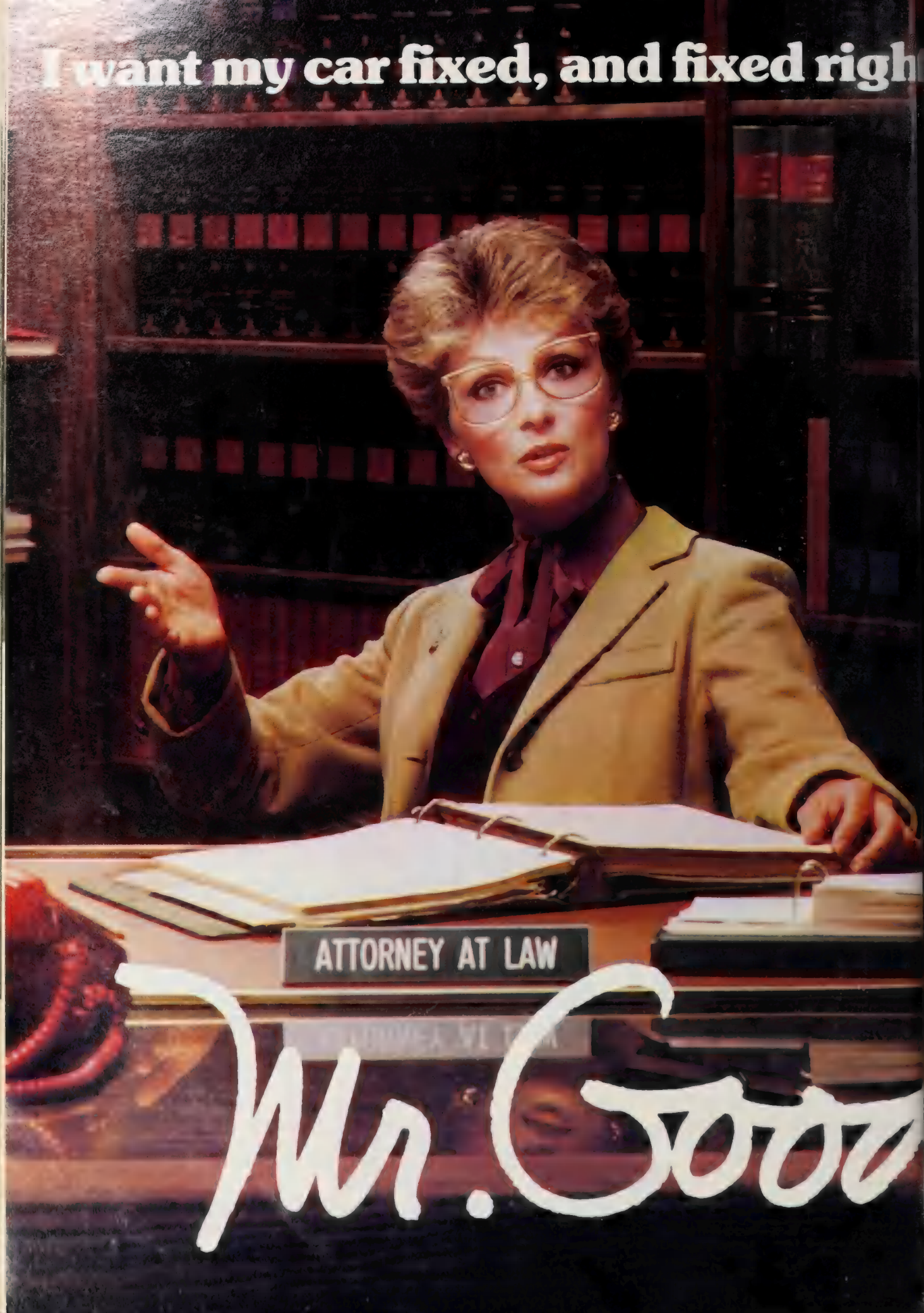
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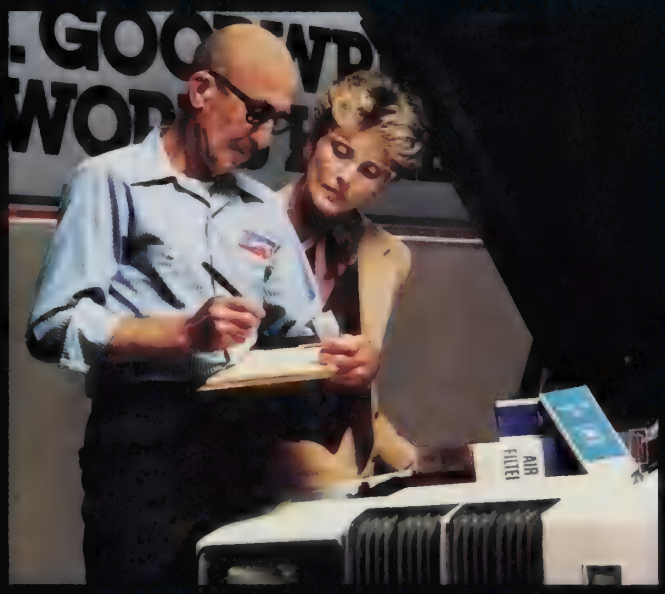

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GENERAL MOTORS CORPORATION

Gable skylight slides to let in fresh breezes

With the flip of an indoor switch, the skylight slides back over the roof ridge of this house in Portola Valley Ranch, California. Then, as the living room opens to unobstructed views of oak trees and sky, fresh breezes cool the house's interior.

Architect Don Knorr of Knorr Associates, San Francisco, designed the generous skylight to straddle a 12-foot opening between two roof trusses. Five 2- by 12-foot, bronze-tinted panels of double-glazed tempered glass make up each side. When activated by an indoor switch, the motor-driven unit slides on tracks along the tops of load-bearing walls on both sides of the house.

In summer, owner Joe Whelan partially opens the skylight and tree-shaded sliding glass doors along the windward side of the house to create a cooling updraft. In winter, the tile floor below the skylight collects and stores heat for added warmth in evening hours.

Copper flashing and a neoprene skirt seal the space around the skylight.

With skylight closed, *atrium and adjacen living areas still get lots of natural light. In winter, the solar gain helps heat house*

This big skylight was expensive (it ad $14,000 to the cost of a house buil 1980), but smaller versions would cre the same cooling effect.

With skylight partially open *(left) or completely open (right), the sky's the ceiling over main living a*

DARROW M. W

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washer our exclusive Super Surgilator® agitator. All to help make sure every item comes out right, every time.

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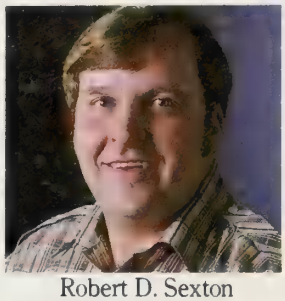

Robert D. Sexton
Quality Control

But even so, some of you might be asking, "What have they done for me lately?"

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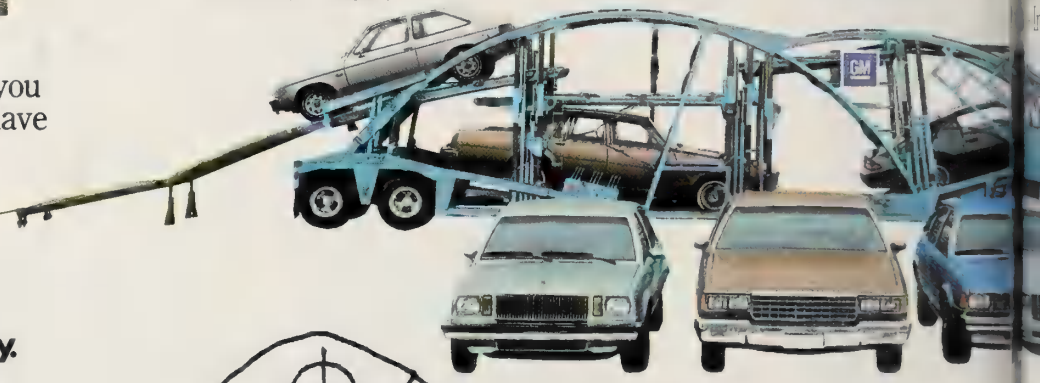
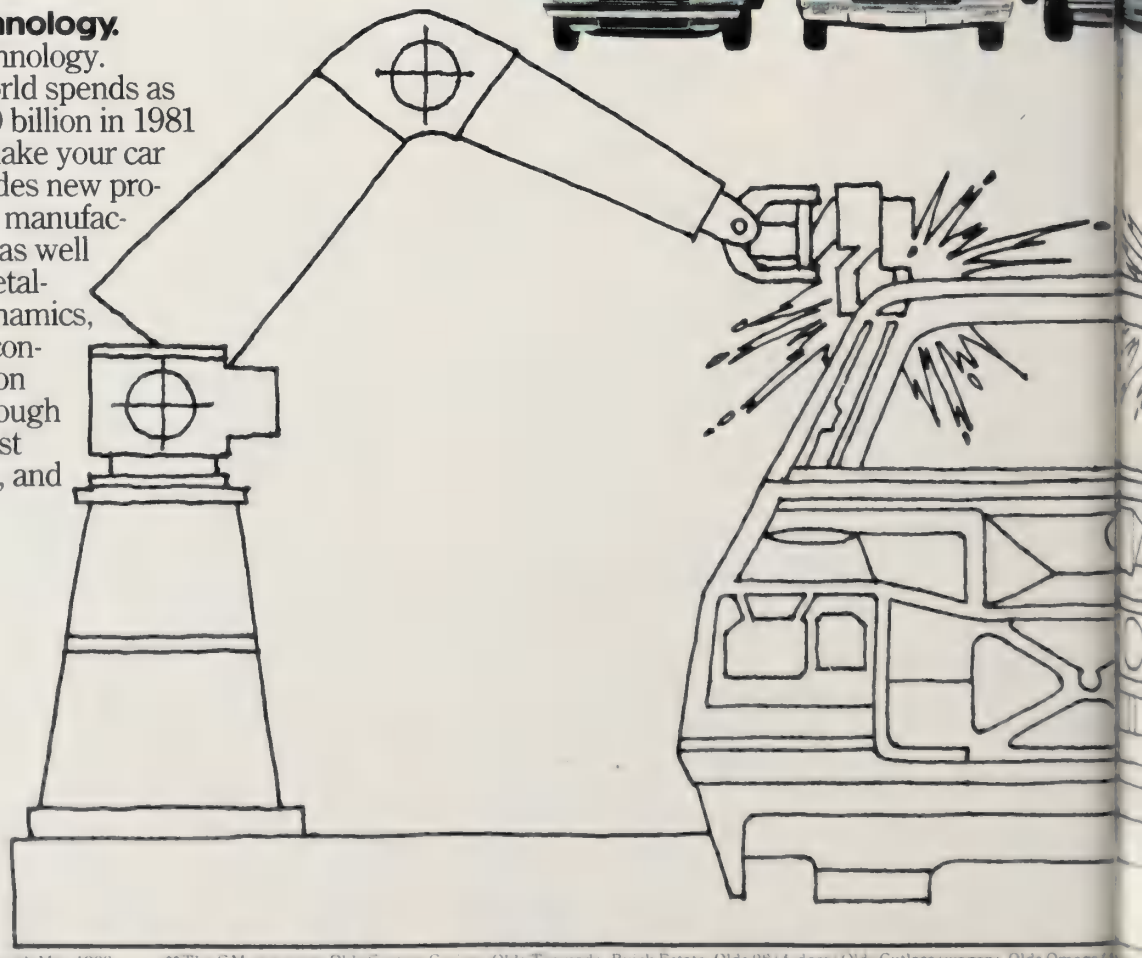
First in technology.
Start with technology. Nobody in the world spends as much as GM ($10 billion in 1981 alone) trying to make your car better. This includes new products, plants, and manufacturing processes, as well as advances in metallurgy and aerodynamics, new power train concepts, and precision workmanship through the use of the latest computers, lasers, and robots.

7 Best sellers.
The result is that now GM has seven of the top ten best-selling cars in the U.S.*

Chevrolet's Chevette, Citation, Impala/Caprice, and Camaro, Buick's Skylark, and Oldsmobile's 88 and Cutlass Supreme Coupe are all winners, but they're just the tip of the iceberg, so to speak, of GM value.

We make all kinds of cars for all kinds of people. With all kinds of needs.





*Calendar year through May 1982 **The GM cars were: Olds Custom Cruiser, Olds Toronado, Buick Estate, Olds 98 (4-door), Olds Cutlass (wagon), Olds Omega (

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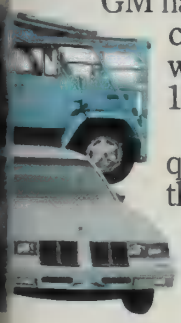
We're very proud that in the latest report e Insurance Institute for Highway Safety, GM had the eleven top-rated cars.** The report ranked cars according to the frequency with which they were involved in accident injury claims and covered 1978-80 models.

We believe these results reflect not only our cars—their quality, size, weight, and design—but how and where they are driven. It shows that our cars and customers go well together.



A new kind of excellence.

And there's something else. We believe GM stands for something else in the eyes of the American public.

It stands for excellence. And continued excellence. So that now, next year, and the years after that, we need always to be: the best GM ever.

Promise.

We have the commitment to quality, the resources, and the track record. And because of these, we just happen to think we're the one company that can continue to meet the transportation needs of a changing world better than anyone else.

Richard Michael Caras
Engineer

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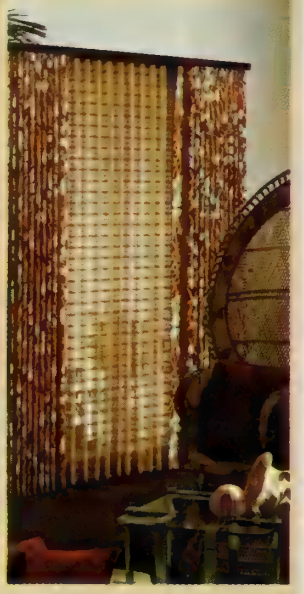
olet Caprice (wagon), Pontiac Bonneville (wagon), Olds Delta 88 (4-door), Pontiac Catalina (4-door), and Buick LeSabre (4-door). Source: Highway Loss Data Institute.

Spring Crest...

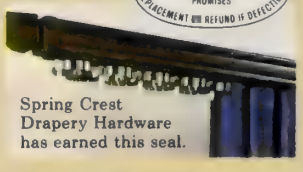


...for window shopping

Beautiful draperies begin with a visit to your nearby Spring Crest Dealer. Here's the only place you'll find our special Windoware ...the spring steel pleater system that keeps draperies hanging straight and looking picture-perfect.

And you can select special enhancements, such as Spring Crest decorative rods, fancy overtreatments and drapery hardware. Why not do some window shopping soon? Your locally owned Spring Crest Drapery Center is the best place to start. And you'll enjoy dealing with your helpful Spring Crest professional.

LIMITED WARRANTY TO CONSUMERS ★ Good Housekeeping PROMISES REPLACEMENT OR REFUND IF DEFECTIVE



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GLENN CHRISTIANSEN

Basement tasting room *has oak-faced, tiled counter with built-in sink; table and chairs are nearby. Wine rests in terra cotta flue tiles (about $5 each)*

Wine storage and tasting room

Amid the clutter of ducts in their Mercer Island, Washington, basement, Jeffrey and Pauline Herrman found a cool hideaway they converted into a wine cellar and tasting room. A 14-foot-long counter serves as both storage and serving area, with a bar sink built in for rinsing tasting glasses. Glasses are stored in 18-inch-wide cupboards at each end of the counter.

Terra cotta flue tiles, a foot square and 12 inches deep, are stacked on their corners below the counter, forming diamond-shaped storage slots. Each tile holds 8 to 10 bottles; together with the space between tiles, that gives the Herrmans room for about 16 cases. The 24-inch-deep counter allows clearance behind the tiles for the sink and drain. To keep the room cool, it is vented into the crawl space. ▫

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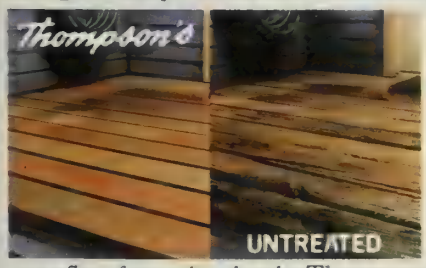
Water destruction starts innocently enough. Spring rain. A gentle snowfall. Slowly the water creeps...drip...drip. And seeps...drip...drip. Penetrating into tiny airpockets and crevices. Until shingles warp. Concrete walls crack and chip. Even the very foundation of your home can begin to crumble.



That's why more and more people are protecting their homes with Thompson's Water Seal waterproofing formula. Apply Thompson's to brick, wood, or concrete. It penetrates to form a protective shield. Watch how water just beads up and rolls right off. And where water can't get through, it can't do any costly damage.

For years architects and construction engineers have used Thompson's to waterproof wood, brick, and concrete on multi-million dollar projects. It's always been an effective way to protect their investments. And now it can protect your investment.

But you don't have to be an expert to use Thompson's. It easily brushes, rolls, or sprays on. And it dries clear, so it never changes the color of what's underneath. Protect your home with Thompson's Water Seal.

Because where water can't penetrate, it can't devastate.

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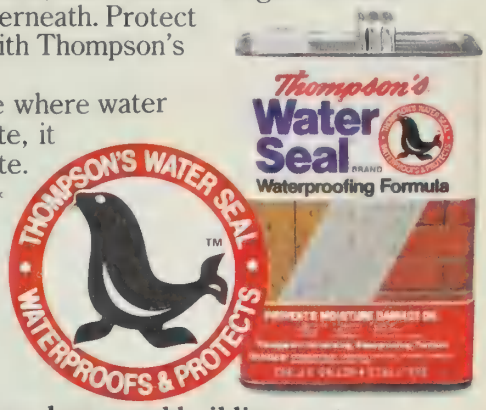
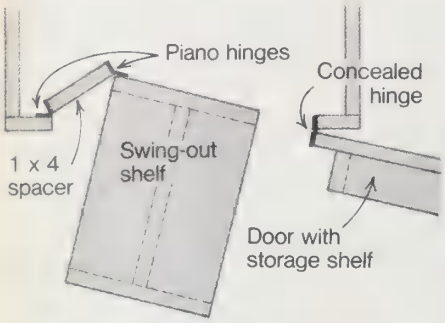


Thompson's Water Seal is available at better paint, hardware, home and building centers.

Shallow shelves swing out



Top-view drawing *shows how piano hinges join swing-out shelf to cupboard wall*

Narrow shelves, *mounted inside door, are handy for often-used items*

DARROW M. WATT

Two-sided central unit *pivots out for access to shelves on both sides*

This three-stage pantry has more storage capacity than its tall, narrow shape would make you imagine. Its three shelf units (one in the door and two inside) hold plenty of canned and dry goods.

The center unit swings out for easy access to shelves on both its sides and to fixed shelves behind; it's attached to the inside of the cupboard with piano hinges and a movable 1-by-4 oak flap.

Can-deep shelves in the door and center units are adjustable. A 1-inch lip on each shelf keeps contents in.

The pantry is in a kitchen designed by Hayahiko Takase, Los Angeles. □

It's a jungle in there.

You wouldn't believe all the menacing things that are around your house. Everyone's house. Tobacco smoke odors, dust, pollen, gases like formaldehyde, and odors from harmful bacteria and fungi. All trapped in the indoor air you breathe. A veritable jungle indeed.

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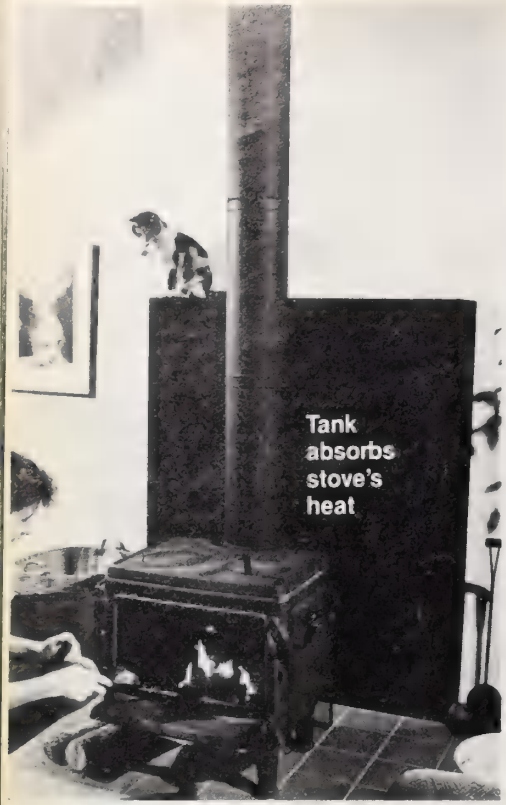
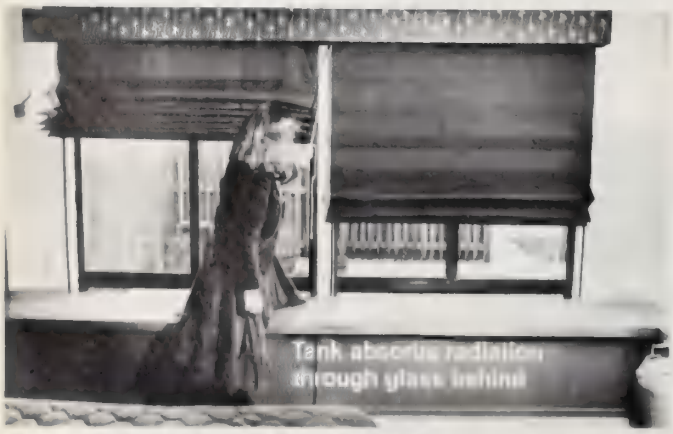


Wood-burning stove *heats foot-deep water tank, which in turn warms the room as the fire dies down. Is it warm enough to do the job? Apparently so—it's passing the cat test*

In summer, *tank below bookcase absorbs room heat that builds up by day; overhead fan exhausts heat at night*

DON NORMARK

Hidden water tanks help cool, heat



Solar radiation *is absorbed by tank along lower panes of windows; insulated curtains trap heat indoors at night. Outside overhang keeps high summer sun off the windows*

Properly sized and placed, sealed tanks of water (the most efficient common heat-storing material) give this house in Sacramento year-round thermal stability. This means much lower energy bills for summer cooling and winter heating.

The physical principle is simple: heat energy naturally flows from a warmer place to a cooler place. Water can absorb heat from the sun or other source, then radiate it naturally back to the rooms as they begin to cool at night. In summer, tanks exposed to evening breezes can become cool enough to absorb room warmth built up during the day.

With just four water-filled tanks of welded ⅛-inch steel, architect James Plumb gave Joan and Norb Yates a highly effective space-conditioning system.

Behind their wood-burning stove, a foot-deep tank fills part of the legally required safety space between the stove and wall, absorbing the stove's rearward radiation to help heat the room at night. Just inside full-height south-facing windows, tanks in two bedrooms use the sun as their heat source. And all three tanks, plus another one set unobtrusively below a bookshelf, absorb built-up room heat in summer. This heat is vented away at night through open windows and an overhead fan.

Tank sides facing a heat source must be painted a dark color for best absorption. Other sides can be painted any color, but Plumb found that continued use of the dark color made the metal less obtrusive.

The Yates family has no backup cooling or heating system (except for the wood stove). In the hot Sacramento Valley, their highest indoor temperature last summer was 82°, while outdoor temperatures soared past 100°. □

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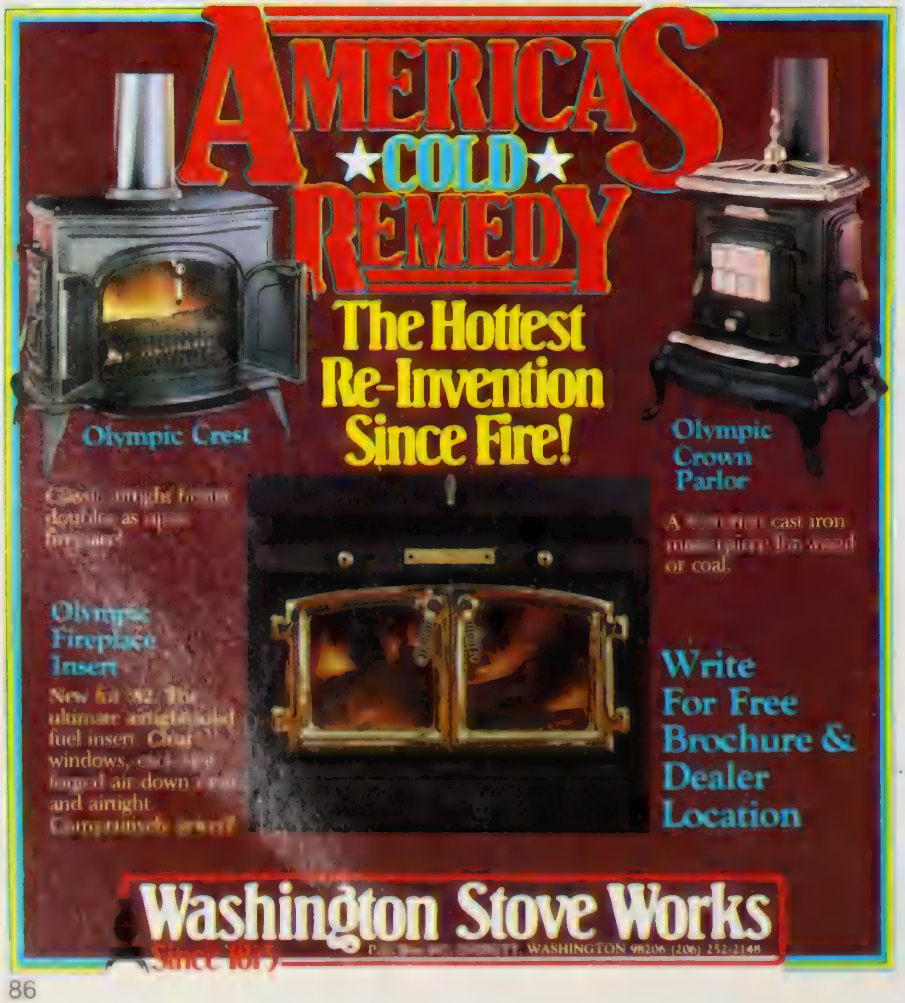


DAVID STUBBS

Peeling back *the rug reveals two rows of fabric fasteners along top edge. Piece of 2 by 2 holds rug slightly off wall*

Oriental rugs as wall hangings

Hanging small Oriental rugs on walls brings their colors and ornate patterns up to eye level. But since they were originally intended to lie flat on a floor, turning them into wall hangings can introduce stresses which could distort their shape and diminish their value.

Ray Broggini of Healdsburg, California, found a way to display his 30- by 52-inch Oriental rug that puts an even tension along the top edge while making the rug appear to float an inch or so off the wall. He top-stitched two rows of the hook side of hook-and-loop (Velcro) fabric fasteners to the back of one end of the rug. He hot-glued the loop sides to a piece of 2-by-2 cut to match the rug's width. Expansion bolts hold the wood to the wall.

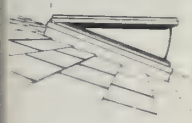
To make the hanger less visible from the side, you could paint the wood to match the wall color. □

Add more light, air, and drama to your home with the new Pella Skylight.

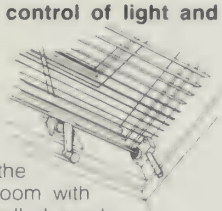
It's remarkable how doing something as simple as installing a new Pella Skylight can make such a difference in the feel of a room. A skylit entry announces your home in a new way. The kitchen can be light and lovely. In the bathroom, you create an abundance of light and still have privacy. Hallways and stairways lose their "closed-in" feeling. And Pella Skylights can turn attic space into living space for a fraction of the cost of building a dormer with conventional windows.

And, with a full line of ventilating and fixed Pella Skylights to choose from, your imagination can reach new heights. Plus, Pella Skylights are built with all the quality and convenience features you expect from Pella.

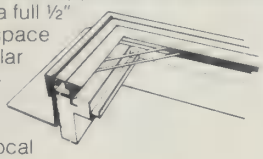
Designed for superior ventilation. When you open Pella Skylights at the top of the house, and open a few windows on lower floors, a natural breeze is created that gently flows up and out, carrying away warm air. You may find that you don't need to use your air conditioning as often. Ventilating Pella Skylights are hinged at the top and crank open about 8" at the bottom. You can operate the Skylight either directly by hand, or with an easy to handle aluminum extension pole. And, all ventilating skylights are supplied with a screen that attaches to the inside of the skylight frame.



Convenient, built-in control of light and privacy with Pella Slimshade®. These attractive Oyster White narrow-slat metal blinds are adjustable to provide shade, softly diffuse the light, or drench the room with sunshine. They're installed inside the skylight frame and are operated either directly by hand or with the extension pole.

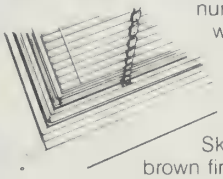


Insulating glass and solid wood construction for energy efficiency. Pella Skylights are perfect for passive solar applications because double glass with a full ½" of insulating air space will help retain solar heat gain. Standard glazing is tempered glass. As an option, or if local codes require, order skylight units with an inner pane of heat-strengthened laminated glass.

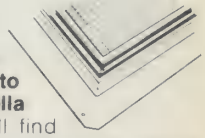


The solid wood frame and sash of Pella Skylights also contribute significantly to energy savings and help to control condensation. And the smooth-sanded interior surface is ready for stain or paint to match any decorating scheme.

Water-tight and air-tight. A triple weather-stripping system on ventilating Pella Skylights compresses tightly to seal out moisture and air infiltration. And, to keep the outside of your skylights looking good, the exterior aluminum cladding is finished with a baked enamel that resists fading, chipping, peeling, and blistering. Plus, the low profile of Pella Skylights and the dark brown finish will blend well with any roof covering.



Installation is simple because the heavy-gauge aluminum flange is already attached to the skylight frame. After the skylight is placed, simply secure the flange to the roof and install shingles. Pella Skylights can also be combined to make any arrangement of sizes, or combinations of ventilating and fixed skylights.



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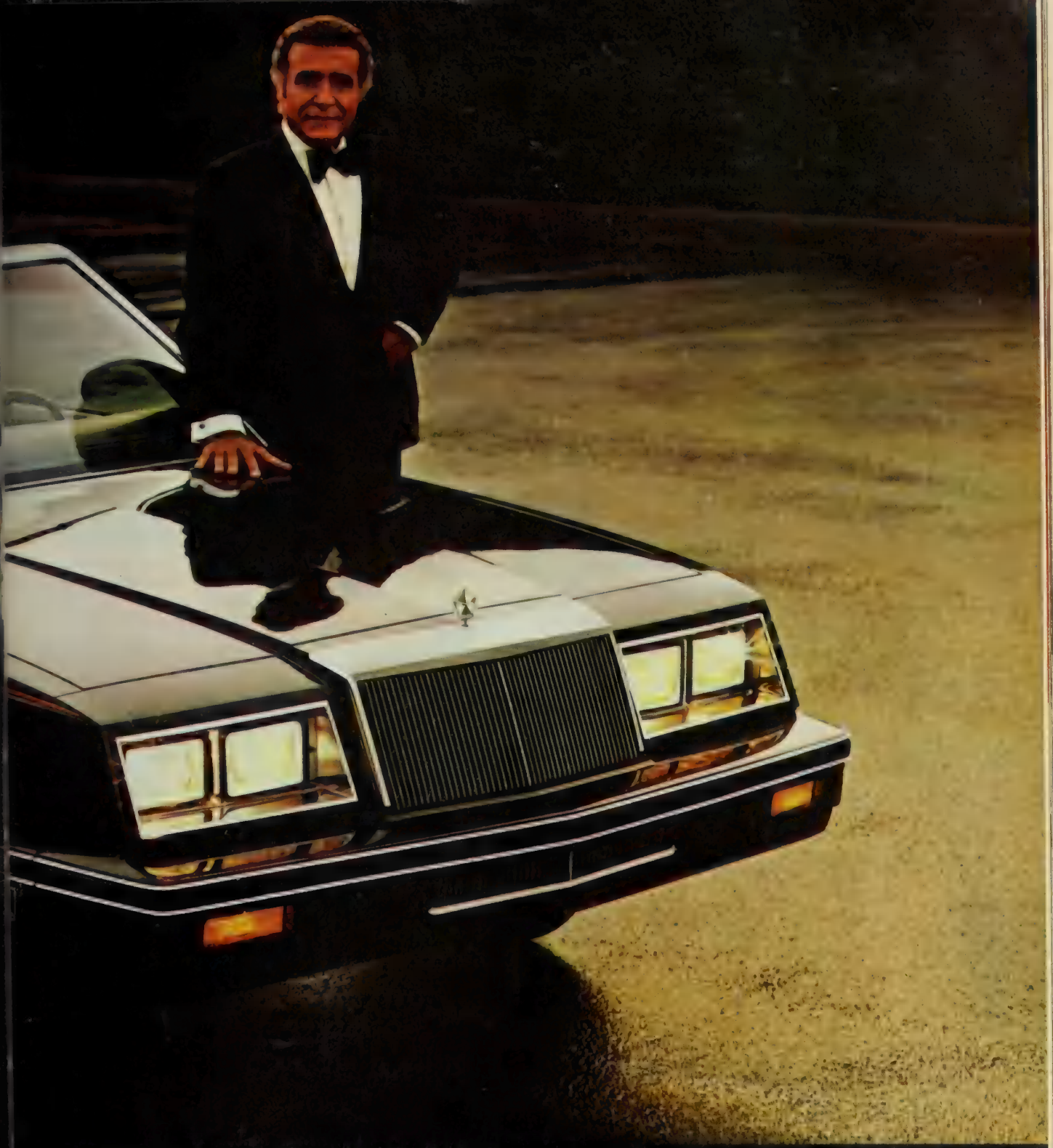

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PETER O. WHITELEY

Pull-out section *gives privacy and sun protection to patio dining area*

Slat wall slides for shade

Late afternoon sun angling under an overhead trellis made the patio at Pam and Jim Allison's house uncomfortably hot. They wanted to cut the heat and glare and gain some privacy but did not want a permanent side wall that might create a boxed in feeling.

Jim Allison, a San Diego landscape designer, solved the problem with a slat wall with a movable section that slides on an overhead barn-door track. When they want shade from the side, the Allisons slide the 52-inch-wide section across the opening. When it's not needed, it slips behind a stationary 48-inch-wide section projecting from the corner of the house. (A 4-by-4 post secured to the overhead joist and the patio anchors the other end of the stationary section.)

The 100-inch-tall screening wall is made of resawn fir 2 by 2's spaced 1½ inches apart and nailed to horizontal 2 by 3's.

The sliding section mounts to an overhead track with two hangers secured to the tops of the 2 by 2's. The track screws to the outside face of the 2-by-6 joist at the end of the overhead trellis. The 4-by-8 beam supporting the trellis stops the door from sliding too far, and a small block of wood at the house end stops it in the other direction.

A semitransparent stain seals both slat wall and trellis. ▫

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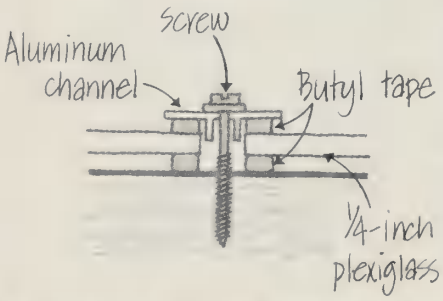
Graceful and airy carport . . . a car "pergola"

"It's a car pergola, not a carport!" said an enthusiastic visitor upon seeing the structure in the front of Arline and Garrett Eckbo's Berkeley, California, house. Cross-lapped gridwork supports a transparent plexiglass roof that creates an inviting and airy structure.

Architect Hiro Morimoto of Atelier Architects designed the carport to be as graceful and open as possible. To give the roof strength against lateral movement, he sank the 8-by-8 support posts 6 feet into the ground. This reduced the need for structural side walls; the back wall is needed only to screen the house from the street.

To balance its size visually, the 20- by 20-foot carport uses oversize beams to carry the relatively light weight of the ¼-inch bronzed plexiglass roof. The front 4 by 14 masks a gutter running across the front lip of the roof. The rest of the larger members in the overhead structure are load-carrying 4 by 10's and 3 by 8's.

Notched into the 3 by 8's at 12-inch intervals are 2 by 2's that give the lacy lattice appearance to the roof. T-shaped aluminum channels and soft butyl tape hold the 4- by 10-foot sheets of plexiglass in place, sealed from rain. □



T-shaped metal channel *holds plexiglass securely but allows for movement*

Gutter hides *between 4 by 14 and 4 by 10. Tinted plexiglass diffuses view of trees*

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The Changing Western Home®

PETER O. WHITELEY

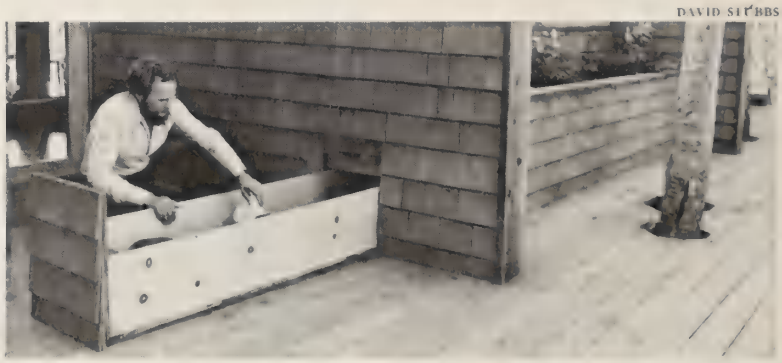
A no-porch solution

DON NORMARK

Porch swings need a generous overhang to hang from, but not all houses have them. Architect Thomas Moreland of Eugene, Oregon, built a simple framework that lets him put his store-bought swing far from any porch or eave.

He sank two 10-foot-long pressure-treated 6 by 6's about 3 feet into the ground, spaced about 8 feet apart. He capped the posts with a third 6 by 6, and secured it with countersunk 10-inch-long ½-inch lag screws. For extra strength, the lag screws run into lead expansion shields set in the tops of the posts.

DAVID STUBBS



Beneath the planter—two hidden storage bins

Concealed beneath a 16-foot-long window box are two 8-foot-long storage bins in which owners Mary and Steven Higbee of Guerneville, California, keep gardening supplies. Shingled panels that match the house siding mask each box's outside face. The boxes, made of plywood and 1-by-12 pine, roll on recessed rubber wheels. The shallow planters are lined with sheet metal.

One's for laps, the other's like a watery treadmill

These two prefabricated pools look quite different, but both are designed for exercise swimming.

The long, slender one at left (three views) is an aboveground pool made of fiberglass, foam, and reinforcing steel. This one is 45 feet long, but it could be made much longer because it is made of 7½-foot-long bolt-together sections. Each section is 9½ feet wide and stands about 4½ feet high. Because the pool is freestanding, it needs only a flat pad of sand for its base—a boon for difficult hillside sites. For more information, write to Fast Lane Pools, 2-1829 E. Cliff Dr., Santa Cruz, Calif. 95062.

The smaller pool below is like a watery treadmill because it uses water jets to keep an average swimmer in its center, swimming in place. Measuring only 12 by 16 feet, the 4-foot-deep pool could fit into many small back yards. It comes as one unit that can be craned over a house to its site.

For more information, write to San Juan Pools, 1030 Duane Ave., Santa Clara, Calif. 95050.

How have you cut your energy bills?

Little things you do around the house can cumulatively make a big difference in the size of your utility bills. Insulation (walls, windows, attics), low-wattage or fluorescent lighting, insulating blankets for hot-water heaters, lowered thermostats, and clean furnace filters are obvious ways to help save energy without major commitment of dollars and time.

Along with these tried-and-true measures, homeowners come up with practical—and often unexpected—energy-saving notions of their own. Some are artlessly simple: changing a house's exterior color, for instance, to reflect or absorb heat. Some are crafty: making insulating quilts instead of curtains to cover windows. Some are downright inventive: devising ductwork at the base of a refrigerator to vent the generated heat outside in summer.

If you have any such innovative ideas to share, we'd like to hear about them. Tell us what they are, how they work, and—if possible—how much they've helped you cut from your utility bills.

Send your letter to Energy-saving Ideas, *Sunset Magazine*, Menlo Park, Calif. 94025.

Snoopy goes underground—after termites

Usually insects seek out dogs, but California animal trainer Robert Outman has dogs that hunt bugs.

When a conventional termite inspection failed to point out a colony within his own house, Outman began training dogs to detect the presence of wood-devouring insects—even in areas concealed by carpeting, paneling, stucco, or concrete, and in spaces too cramped for an inspector to enter. He chose beagles for their keen nose and ear.

We watched Teddy, an Outman-trained beagle, find serious infestation missed by inspectors from three major pest-control companies. When Teddy's "alert" showed where to look, we pulled up a section of wall-to-wall carpet and found a hardwood floor so damaged we could poke a screwdriver through it.

To obtain a canine inspection (it costs about $125), inquire through a good pest control company—or telephone (415) 595-5171.

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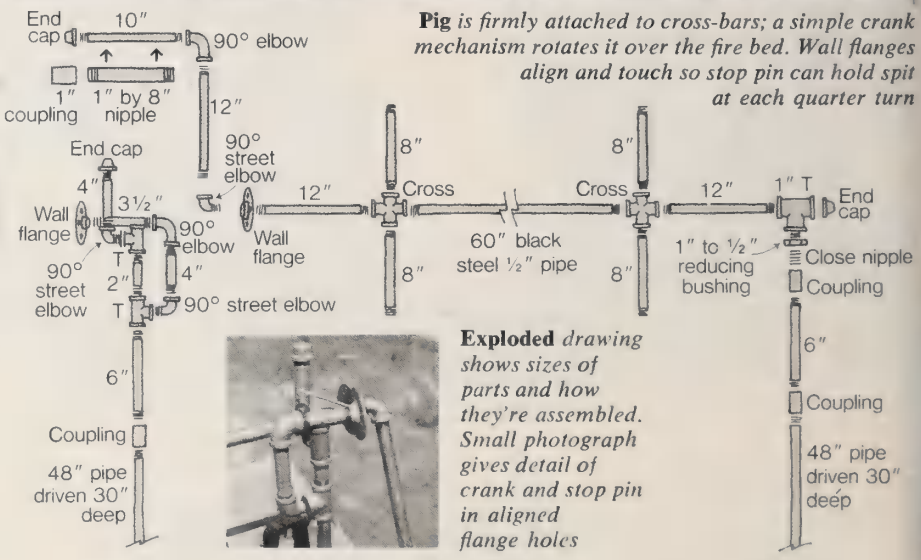
DARROW M. WATT

Pig *is firmly attached to cross-bars; a simple crank mechanism rotates it over the fire bed. Wall flanges align and touch so stop pin can hold spit at each quarter turn*



Exploded *drawing shows sizes of parts and how they're assembled. Small photograph gives detail of crank and stop pin in aligned flange holes*

Cross-bar spit homemade from pipe

Rube Goldberg would be proud of the pig-roasting spit we devised (see story on page 66). After observing the inventions of others and experimenting with a few rental spits, we found steel plumbing pipe to be the perfect medium for building your own. Available at hardware or plumbing stores, it is sturdy, versatile, and can be put together easily with just a couple of pipe wrenches (we used 10-inch and 14-inch wrenches). Materials should cost less than $65.

Our design features a pair of cross-bars which makes spitting and transporting the pig easier. As the sketch above shows, most of the fittings and pipes are ½ inch; three are 1 inch. Because galvanized metals can transfer harmful chemicals into the meat, the 60-inch pipe that passes through the pig should be ungalvanized black steel.

To make spit forks, you'll need a pair of ¼- by 36-inch lengths of steel rod. Use a vise to bend them into a U shape with a 6-inch base and 15-inch prongs; sharpen the ends with a file or grinder. With the pig on the spit and the forks in the pig, use wire to fasten one fork to the front cross and a 3-inch C-clamp to hold the rear fork to the pipe. You'll also need a sledge to drive in the spit supports (cap the pipe first, and remove the cap after pipe is in place). You can use a nail as a stop pin.

To be able to screw pipes halfway into both sides of the wall flange on the spit, you'll need to "tap" threads all the way through it. Screw a piece of pipe all the way through the flange, then back it out.

Assemble the two spit supports and the entire spit. To mount the pig, see page 67. Don't use pipe joint compound, but do tighten fittings so they won't come apart when the spit is hot and greasy. □

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GLENN CHRISTIANSEN

Obscuring the view *to house beyond was the intent of this extended-eave trellis*

Extra-long rafters *meet 2-by-3 supports in nailed half-lap joints*

Privacy trellis extends the eaves downward

Building codes prohibited designer Bob Halderman from building a tall privacy fence at this Rancho Palos Verdes, California, house. However, they didn't say anything about extending the eave downward to accomplish the same end.

When the roof was framed, rafters were left extra-long; they extend out 4 feet, just past the edge of a small deck. A half-lap joint secures downward-angled 2 by 3's to the rafters. Above the rafters, 1 by 2's on edge form the trellis "roof." To screen the view to the neighbors further, the 1 by 2's were laid on their sides across the 2 by 3's. All wood surfaces were stained to match the house siding.

Remodelers wanting to add a cantilevered trellis could also bolt extensions onto existing rafters. ▫

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PETER O. WHITELEY

Angled walls *rising from water serve as backrest for seating ledge*

Pool walls form backrest and raised planter

Extending 30 inches above the water line, the end walls of this black-bottomed pool create a watery nook with a submerged bench seat. It's a relaxing place to escape Sacramento's summer heat. The walls extend across the deep end and along one side of the pool, forming part of a planter that separates the pool from the sloping garden.

Architect Steven Goldstein covered the concrete walls of the pool nook with adobe-colored 1-inch tiles. The sides of the planter facing the garden were built up with 4-by-4 posts and 2 by 12's, then covered with siding to match the house. Goldstein capped the walls with 2 by 12's that serve as a seat, catwalk, and informal diving platform. He sanded the wood smooth, then stained and sealed it with a water-repellent preservative.

The 4-foot-wide planter is filled with asparagus ferns (*A. densiflorus 'Sprengeri'*), which are watered by a built-in sprinkler system. Low-voltage floodlights under the plants provide soft, diffused light at night. Although a few of the asparagus sprays cascade over the edge, owners Heather and Rick Degen trim most back because they develop sharp thorns. □

Sunset's Kitchen Cabinet®

Fresh produce, in bountiful prime this month, is the focus of these family-style recipes.

As a vegetable dish or salad, there are beans bound by rings made of zucchini. Seedless grapes pair with turkey and celery in a main-dish salad.

For a quick supper, mushrooms and edible-pod peas go with shrimp in a stir-fry dish. Spinach-stuffed tomatoes enhance a cold meat platter.

For a homey dessert, arrange peaches

Crack coconut with hammer, pry out meat with screwdriver, cut into shavings

Golden Coconut Chips

Thin crisps of toasted coconut are great for snacking.

1 coconut (1¼ to 1½ lbs.)
About ½ teaspoon salt, optional

With an ice pick, puncture two of the eyes in coconut base, through meat to center. Invert and drain out liquid, reserving for other uses (or just to drink) if desired.

Set coconut on center rack of a 375° oven and bake for 30 minutes to shrink coconut meat from shell.

On a sturdy surface, strike hot coconut sharply with hammer to crack open. Let stand until comfortable to touch. Then, using a stubby screwdriver, pry meat from shell in large chunks.

Slice coconut thinly, using the slicing surface of a food grater or vegetable peeler. Spread out evenly in 2 shallow rimmed 10- by 15-inch baking pans. Bake in a 200° oven until coconut feels dry and crisp, about 4 hours.

Turn oven to 350° and continue to bake, stirring often, until coconut is golden, 8 to 10 minutes. If desired, salt lightly while still hot.

Cool on pans. Serve, or store in an airtight container as long as 3 weeks. Makes about 3 cups.—*I. R., North Sacramento, Calif.*

Use tongs to serve these individual bean salads with basil-honey dressing

Green Bean and Zucchini Bundles

A basil-honey vinaigrette dresses these zucchini and bean bundles. They're attractive for a summer buffet salad.

1½ pounds green beans
1 medium-size zucchini, at least 2 inches in diameter
½ cup salad oil
¼ cup white wine vinegar
2 tablespoons *each* Dijon mustard and honey
2 small cloves garlic, minced or pressed
2 tablespoons chopped fresh basil or 2 teaspoons dry basil

Remove ends and strings from beans. Cut ends from zucchini, then cut crosswise into 8 equal slices. With a small knife, carve out centers of zucchini slices, leaving ¼-inch rim.

In a covered steamer, cook beans over boiling water until tender-crisp when pierced, 4 to 5 minutes. Immediately immerse in ice water to cool.

Steam zucchini just until tender when pierced, 2 to 3 minutes; immerse in ice water. Drain vegetables well.

Poke 8 to 10 beans through each zucchini ring. Arrange bundles in a shallow dish. (If made ahead, cover and chill as long as overnight.) Combine oil, vinegar, mustard, honey, garlic, and basil and pour over bean bundles. Serves 8.—*E. S., Eugene, Ore.*

Juicy green Thompson seedless grapes glisten atop cool, creamy turkey salad

Turkey-Grape Salad

Grate a little fragrant nutmeg over servings of this hot weather supper salad.

4 cups cubed cooked turkey
3 stalks celery, cut in thin diagonal slices
Cream dressing (recipe follows)
Romaine leaves
2 cups seedless grapes
Toasted almonds (directions follow)
1 whole nutmeg

In a large bowl, combine turkey, celery, and dressing. Serve, or cover and refrigerate as long as overnight.

Line 6 individual salad plates each with 3 or 4 lettuce leaves. Spoon equal parts of the turkey mixture onto center of each and top with equal portions of grapes. Sprinkle almonds evenly over salads. Pass nutmeg with a grater to grate to taste over individual portions. Makes 6 servings.—*J. B., Santa Rosa, Calif.*

Cream dressing. Combine ½ cup *each* **mayonnaise** and **sour cream** and 3 tablespoons **lemon juice.**

To toast almonds, spread ½ cup **slivered almonds** out on ungreased 10- by 15-inch pan. Bake in a 350° oven, shaking pan often, until light brown, 5 to 7 minutes. Use hot or cold.

on a crunchy torte and top with almond-flavored cream.

Send your favorite fresh ideas for recipes to *Sunset Magazine*, Menlo Park, Calif. 94025. We pay $25 for each recipe upon publication.

Bounty of the season . . . stuffed tomatoes, zucchini bundles, turkey-grape salad

Hot Stuffed Tomatoes

Serve these warm stuffed tomatoes with chilled sliced ham or a selection of cold cuts.

- 8 medium-size firm-ripe tomatoes
- 1 tablespoon *each* butter or margarine and salad oil
- 1 medium-size onion, chopped
- ¾ pound spinach (discard stems), washed and coarsely chopped
- 1¼ cups shredded Parmesan cheese
- 2 tablespoons fine dry bread crumbs
- ⅛ teaspoon ground nutmeg

Cut off about ¼ of the tops of the tomatoes and, with a small spoon, scoop out pulp to make hollow shells. Chop pulp and set aside.

In an 8- to 10-inch frying pan, melt butter with oil and onion over medium-high heat. Cook, stirring, until onion is limp, about 5 minutes. Stir in reserved tomato pulp and spinach and cook, stirring, until spinach wilts, 3 to 4 more minutes. Stir in 1 cup of the Parmesan cheese, bread crumbs, and nutmeg.

Fill each tomato equally with spinach mixture and arrange in an ungreased 9-inch square baking pan; top each equally with remaining cheese. Broil 4 inches from heat, just until hot, 3 to 4 minutes. Makes 8 servings.—*P. L., San Francisco.*

Fill hollowed tomatoes with spinach mixture, top with cheese, then broil

Shrimp and Pea Pod Stir-fry

Bright pink shrimp and green pea pods make this a colorful supper entrée.

- 1 pound medium-size shrimp
- 2 tablespoons salad oil
- ½ pound mushrooms, sliced
- Cooking liquid (recipe follows)
- ½ pound edible-pod peas (sugar snap or Oriental), strings pulled off
- 4 green onions (with tops), cut into thin diagonal slices

Rinse shrimp and peel except for the tail; devein and set aside.

In a wok or 10- to 12-inch frying pan on medium-high heat, combine oil and mushrooms. Cook, stirring, until mushrooms just begin to get limp, 2 to 3 minutes.

Add peeled shrimp and the cooking liquid and stir constantly until shrimp are pink and opaque throughout and liquid is thickened, 4 to 5 minutes. Add pea pods and stir until hot, then mix in green onion. Serve at once. Makes 4 or 5 servings.—*M. K., San Carlos, Calif.*

Cooking liquid. Stir together 1 tablespoon **cornstarch,** 2 tablespoons *each* **soy sauce** and **dry sherry** (optional), 2 teaspoons minced **fresh ginger,** 4 cloves **garlic** (minced or pressed), and ½ cup **water.**

Stir-fried in a wok, this shrimp and pea pod main dish will cook in minutes

Almond Cooky Torte with Peaches and Cream

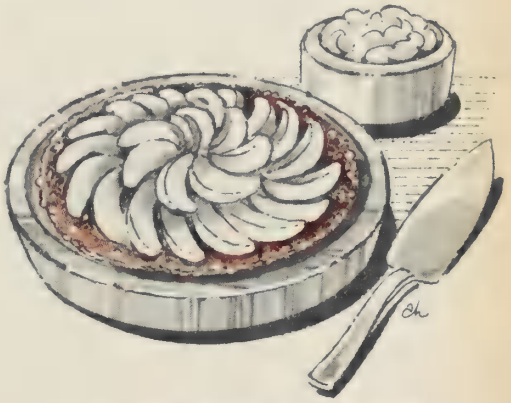
Bright yellow peach slices crown a torte laden with chopped almonds.

- 1 cup all-purpose flour
- ½ cup firmly packed brown sugar
- 6 tablespoons butter or margarine, at room temperature
- ⅔ cup chopped almonds
- ¼ cup milk
- 2 or 3 large peaches or nectarines
- Lemon juice
- Almond cream (recipe follows)

In a mixing bowl, combine flour, sugar, and butter; work with a pastry blender or your fingers to form fine crumbs. Stir in almonds and milk. Spread evenly in a greased 9-inch cake pan with removable bottom. Bake in a 350° oven until edges are golden, about 30 minutes. Cool on a wire rack. Serve, or cover airtight and hold as long as overnight.

Just before serving, remove pan rim and slide cooky off bottom onto a serving plate. Peel and pit peaches, cut into thin slices, and dip in lemon juice. Arrange fruit on cooky. Top cut wedges with cream. Makes 6 to 8 servings.—*P. P., Anchorage.*

Almond cream. Beat 1 cup **whipping cream** until stiff; add 1 tablespoon **sugar** and ¼ teaspoon **almond extract** and beat just to blend.



To serve, cut torte in wedges and spoon almond-flavored whipped cream on top

Teatime... throwing away the rules

TERI SANDISON

Mugs for tea, *raw vegetables, sandwich makings, and wine set the stage for this easy Western version of teatime. In the English spirit are warm sugary scones, oozing with fresh jam and lemon curd*

Borrowing from the English tradition of afternoon tea, this menu has been adapted for casual Western occasions.

Some of the foods incorporated into our menu are traditional at teatime; some are surprises. The style of service we suggest is very untraditional: instead of tiny sandwiches served on silver trays, pots of spreads and platters of food are presented for self-service. Consider serving such a meal for a brunch or a luncheon after golf or tennis, or after an evening concert or the theater.

Fresh, warm bread is traditionally served at teatime; here we present home-baked scones. You can buy the toppings, but small bowls of the freshly made jam and lemon curd are showstoppers.

Cheese and fresh fruit share the limelight with the sweet finale. You can purchase everything, including fancy chocolate truffles; or make the simple chocolate marrons that keep in the freezer.

In addition to hot (or even iced) tea, you might also offer champagne, a crisp, dry white wine, or an apéritif with the sandwiches and vegetables. To complement the dessert foods, consider serving an after-dinner wine such as port or madeira, a sweet champagne, a sweet, late-harvest white wine, or a fruit wine.

The utensils you use determine the elegance of the tea; in the patio meal pictured here, pottery and baskets are appropriate.

Our tea menu is scaled for 12 guests and divided into three separate categories to suggest order of service. Arrange the food for buffet service from one table, or —to emphasize the three courses—serve each on individual tables.

SAVORIES

Sandwich Spreads:
Smoked Salmon Butter, Chèvre Spread, Smoked Meat and Prune Spread
Assorted Breads:
Split Mini-bagels, Thin Pumpernickel
Raw Vegetables:
Small Whole Carrots, Green Onions

HOT BREAD AND TOPPINGS

Buttermilk Scones
Quick Lemon Curd Whole Blackberry Jam
Sweet Butter

SWEETS

Fresh Fruits:
Whole Strawberries, Apricot Halves, Stemmed Cherries, Grape Clusters
Cheeses:
Boursault, Brie, Double Gloucester
Cookies:
Petit Beurre, Ginger Cookies, Shortbread
Chocolate Marrons

All the following recipes can be quickly assembled ahead of time, but you can further streamline your party preparations by purchasing some of the items (as suggested earlier) and by substituting with similar spreads, breads, or sweets.

Smoked salmon butter. In a food processor or with an electric mixer, combine ½ cup (4 oz.) chopped **smoked salmon** and ¾ cup (⅜ lb.) room-temperature **sweet butter** until smoothly blended. Use, or cover and chill as long as 2 days if made ahead. Garnish with **dill** or parsley **sprig** before serving. Makes 1½ cups.

Chèvre cheese spread. Beat together ¾ cup (6 oz.) *each* **chèvre cheese** and **cream cheese,** ¼ teaspoon fresh or dry **thyme leaves,** and 2 to 4 tablespoons **milk** until smooth. Use, or cover and chill as long as 2 days if made ahead. Garnish with sliced **radishes** before serving. Makes 1⅓ cups.

Smoked meat and prune spread. Mound 1 large package (8 oz.) room-temperature **cream cheese** in a shallow 1-quart serving container; top with 1 cup (¼ lb.) **slivered smoked ham** or tongue and ¼ cup (about 5) slivered **prunes.** Use, or cover and chill as long as overnight if made ahead. When serving, scoop down

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into container to get all 3 layers. Make about 2 cups.

Hot Buttermilk Scones

- 3 cups all-purpose flour
- ⅓ cup sugar
- 2½ teaspoons baking powder
- ½ teaspoon *each* soda and salt
- ¾ cup (⅜ lb.) cold butter or margarine, cut in pieces
- 1 cup buttermilk
- About 1 tablespoon milk or cream
- Cinnamon-sugar

In a large mixing bowl, stir together th flour, sugar, baking powder, soda, an salt. With a pastry blender, cut in the bu ter until mixture resembles coarse corn meal. Make a well in center of mixtur and add the buttermilk. Stir with a for until mixture leaves sides of bowl.

Divide mixture into two equal portions pat each portion into a ball with you hands. On a lightly floured board, pa each portion into a ¾-inch round; se rounds 2 inches apart on a 12- by 15-inc baking sheet. With a knife, score eac into 6 wedges, cutting almost to botton of dough. Brush tops with milk and sprin kle with cinnamon-sugar.

Bake in a 400° oven until golden brown 12 to 15 minutes. Serve hot, or cool, wra in foil, and freeze if made ahead. T serve, thaw wrapped on a baking shee reheat in a 350° oven for 10 minutes Makes 12 scones.

Quick lemon or lime curd. In a blende container, combine 2 teaspoons grate **lemon** or lime **peel,** ⅓ cup **lemon** or lim **juice,** 2 **eggs,** 1 **egg yolk,** and ½ cu **sugar.** Whirl until well blended. Wit blender set on lowest speed, graduall add ¼ cup (⅛ lb.) melted **butter** or mar garine in a thin stream until all is added Transfer mixture to a 1- to 2-quart pa and place on low heat. Cook, stirrin constantly until mixture is thick enoug to mound slightly, 6 to 8 minutes. Chil before serving. Makes 1 cup.

Whole blackberry jam. In a 3- to 4-quar pan, combine 3 cups rinsed **blackberrie** and 1½ cups **sugar;** let stand 15 to 3 minutes to allow fruit to form juices Bring to a boil over medium-high heat Reduce heat to medium and cook unti mixture thickens slightly, 8 to 10 min utes. Remove from heat, skim off foam Serve warm or cool. Makes 2 cups.

Chocolate marrons. Combine 3 ounce **semisweet chocolate** and ¼ cup (⅛ lb. **butter** or margarine in the top of a doubl boiler; stir over hot water just until choc olate and butter melt. Blend in 1 can (oz.) **sweetened chestnut spread.** Transfe mixture to an 8- or 9-inch metal pan freeze until firm enough to shape, abou 1 hour. With a spoon, scoop out generou 1-teaspoon portions and form into ½ inch balls; roll in **cocoa.** Arrange candie in paper bonbon cups. Cover and freez until serving time. (Candies softe quickly in the sun.) Makes about 24.

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DARROW M. WATT

Ecuador offers brunch idea: *potato cakes with egg, peanut sauce*

Potato cakes, egg, peanut sauce ... brunch idea from Ecuador

The famous egg dish of Ecuador, *llapingachos,* is an imaginative combination of three mainstays of this country's diet —potatoes, nuts, and eggs. Typically served for supper, each pan-fried whipped-potato cake is filled with a cube of cheese, then topped with a softly cooked egg. A thick, warm, peanut-and-onion sauce is served alongside.

For brunch or supper, one of these egg-topped potato cakes is almost a meal in itself. Serve with chilled fruit juice or sangría.

Egg-topped Potato Cakes with Peanut Sauce

- 2 large onions, chopped
- 3 tablespoons butter or margarine
- ¼ cup creamy or chunk-style peanut butter
- ½ cup regular-strength beef broth, heated
- Chopped salted peanuts
- Whipped potato cakes (directions follow)
- Lettuce leaves
- 4 eggs, softly fried or poached
- Radish roses (optional)

In an 8- to 10-inch frying pan over medium heat, cook onions in the butter until very soft and golden, about 30 minutes; stir often. Reduce heat and blend in peanut butter. Gradually stir in the hot broth until sauce is smooth. Transfer to a serving bowl and keep warm; garnish with peanuts.

To serve, place each potato cake on a lettuce-lined plate; top each cake with a fried or poached egg. Garnish plates with radish roses, if desired. At the table, spoon peanut sauce generously over individual servings. Makes 4 servings.

Whipped potato cakes. In a medium-size bowl, combine 2 to 2½ cups cold **mashed potatoes** (homemade or instant dry potatoes made according to package directions), 2 **green onions** and tops (finely chopped), and 2 tablespoons **chopped parsley.** Stir in 1 **egg yolk,** blending well. Also cut about 1 ounce of **jack cheese** into 4 rectangles, each about ½ inch thick. Divide potato mixture equally into 4 portions and shape each portion around a piece of cheese, forming a patty about 1 inch thick. Lightly coat both sides of each potato cake with **yellow cornmeal.**

In a 10- to 12-inch frying pan over medium heat, melt 3 tablespoons **butter** or margarine. Add potato cakes and cook until well browned on each side, about 8 minutes total; turn cakes carefully with a wide spatula. □

The taste of Hawaiian Fresh Pineapple. There's nothing like it this side of Paradise.

Hawaiian fresh pineapple is sweet, juicy and bursting with flavor. No wonder.

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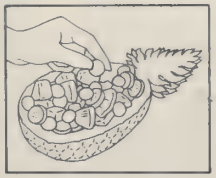
And because fresh pineapple won't ripen any further once it's picked, you don't have to check for shell color, or whether the leaves pull out, or how it sounds when you thump it. Just check the display. If the label says it's from Hawaii, you know the pineapple you're buying is ripe and ready to eat.

Enjoy serving fresh pineapple as an appetizer, in fruit salads, or blended in frothy summer drinks.

Every luscious bite is a taste of paradise, no matter how you slice it.



Waikiki Fruit Salad
In a fresh pineapple shell, mix fresh pineapple with sliced bananas, strawberries, nectarines and peaches

Pineapple Outrigger
Cut pineapple in half through leafy crown, then slice into quarters. Trim off cores and separate fruit from the shell. Cut each quarter crosswise into bite-size pieces

PINEAPPLE GROWERS ASSOCIATION OF HAWAII

When the eggs are fresh from the farm, and the vegetables are selected with care... isn't it silly not to use Philly?

PHILLY FRITTATA

2 tablespoons PARKAY Margarine
1 8-oz. pkg. PHILADELPHIA BRAND Cream Cheese
¼ cup milk
6 eggs, slightly beaten
1 cup chopped cooked potatoes
¼ cup green onion slices
½ teaspoon salt

• • •

1 8-oz. pkg. PHILADELPHIA BRAND Cream Cheese, cubed
1 cup zucchini slices, quartered
1 cup chopped tomato
¼ teaspoon basil leaves, crushed
¼ teaspoon salt

Melt margarine in 10-inch oven-proof skillet or omelet pan over low heat. Combine softened cream cheese and milk, mixing until well blended. Gradually add eggs. Stir in potatoes, onion and salt; pour into skillet. Bake at 350°, 25 minutes.

Arrange cream cheese cubes over egg mixture. Combine remaining ingredients; spoon over cream cheese. Continue baking 10 minutes. 6 to 8 servings

KRAFT

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Italian summer classic with turkey instead of veal

n the Italian dish called *vitello tonnato,* ına sauce dresses up poached veal. Iere, using roast boneless turkey breast ıstead of veal gives equally tasty but ıore economical results. For a light auce, you blend the flavorful pan drip-ings with the tuna. For a more typical ersion, you can also stir in mayonnaise.

urkey Tonnato

½- to 5-pound boned, rolled, and tied turkey breast
1 small onion, finely chopped
½ cup dry white wine
2 tablespoons butter or margarine, melted
Water
1 can (7 oz.) tuna, drained
2 tablespoons *each* drained capers and lemon juice
1 clove garlic
½ cup mayonnaise (optional)
3 or 4 hard-cooked eggs, halved
3 medium-size tomatoes, cut in wedges
Watercress

Place turkey, skin side up, in a 9- by 13-inch roasting pan (not on a rack). Mix together the onion, wine, and butter; pour over meat.

Roast, uncovered, in a 325° oven, allowing 20 to 25 minutes per pound or until a meat thermometer inserted into the thickest portion registers 165° (about 1½ hours for a 3½-pound breast, 2½ hours for a 5-pound one). Baste several times with pan drippings.

Remove turkey from oven, let cool, then wrap airtight and chill at least 4 hours or up to 2 days.

Skim and discard fat from pan juices. Scrape free browned bits on pan bottom and pour into a measuring cup. Add water if needed to make ½ cup. Whirl in a blender until smooth. Add tuna, capers, lemon juice, and garlic; whirl until blended. Pour into a serving dish, stir in mayonnaise (if used), then cover and chill at least 4 hours or up to 2 days.

DARROW M. WATT
Richly flavored *tuna-caper sauce tops cold sliced turkey in this adaptation of an Italian classic*

To serve, discard strings and skin from turkey roast, then thinly slice the meat. Arrange meat on a platter; surround with eggs, tomatoes, and watercress. Serve sauce alongside to spoon over individual portions. Serves 6 to 8. □

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BOB ABFALTER

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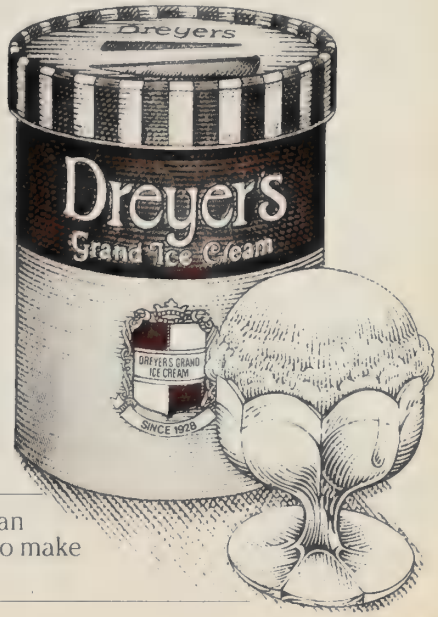
That's why, for instance, Bob Abfalter continues to patiently slow-cook each batch of farm-fresh cream for 30 minutes instead of flash-heating it for 30 seconds like most of today's ice cream manufacturers do. (This is the only way to maintain that Dreyer's delicate flavor and texture).

Over the past 25 years or so, we've had several other so-called "opportunities" to switch to newer, faster methods, but we've never changed.

The way Bob sees it, you just can't hurry Dreyer's Grand Ice Cream. Of course, delivering it is another story.



We could save a lot of time and money if we cut corners and changed our time-proven methods, but that's just not the Dreyer's way.

After all, we're not out to make an ice cream you just eat. We're out to make one you love.

Shiny noodles

Bathe noodles in a sweet-sour dressing, lace with shrimp, eat in cool lettuce leaves

DARROW M. WATT

Gingered fish

Cut lots of fresh ginger into slivers to mix with sautéed fish, peanuts, and shallots

Wilted romaine

Wilted romaine, cucumber, and tomatoes get hot dressing studded with browned sweet Chinese sausage and garlic bits

Vegetables, eggs

Vegetables, eggs, and fried tofu await mildly hot chili sauce and crushed potato chips

A surprise with every bite... tart, sweet, hot, cool. Here are four main-dish salads from Thailand

ırtness, sweetness, a peppery heat, a ›ol freshness—all those sensations tin- e on your palate when you taste these lads from Thailand. Combinations of ›ntrasting flavors are carefully balanced produce intriguing salads, appropriate hot-weather entrées.

lthough the salads have an exotic ori- n, they are all easy to make.

ou may have to go to an Oriental mar- :t for the salty fish soy, dried bean read noodles, canned coconut milk, w fried tofu (*nama age*), and sweet ıred Chinese sausage (*lop cheong*), or to Mexican market for the dried chilies. r use the commonly available alterna- ves suggested.

'ilted Romaine with ot Sausage Dressing

- 3 quarts bite-size pieces crisp romaine lettuce (about 1 large head)
- 1 small cucumber, thinly sliced
- 1 large tomato, cut in wedges
- 1 small red onion, thinly sliced
- ½ cup fresh coriander (cilantro) leaves
- About ⅓ lb. (4 or 5) Chinese sausage (*lop cheong*) or dry salami
- 2 tablespoons salad oil
- 4 large cloves garlic, minced
- Lime dressing (recipe follows)

ı a large salad bowl, combine the let- ce, cucumber, tomato, onion, and cori- ıder. Cut the sausage into ¼-inch- ick diagonal slices (or thinly slice sa- mi, then cut into ½- by 2-inch strips). : an 8- to 10-inch frying pan, combine l and meat. Cook over low heat, stir- ng occasionally, until lightly browned. dd garlic and stir until it is golden and usage is browned. Add lime dressing ıd stir just until hot. Pour hot dressing ver lettuce mixture and mix lightly. Makes 2 entrée servings, 4 first-course rvings.

ime dressing. Stir together ⅓ cup **lime ice,** 2½ tablespoons **sugar,** 1 table- ›oon **fish soy** or soy sauce, and ¼ to ½ aspoon **crushed dried hot red pepper.**

ingered Fish and Peanut Salad

ı a 10- to 12-inch frying pan, pour in ıough **salad oil** to coat pan bottom; lace over medium-high heat. Add 1 pound **skinned rockfish fillets;** cook until fish is lightly browned and opaque when slashed, about 10 minutes for a 1-inch-thick piece. Let cool, then with your hands finely shred fish. Mix fish with ⅓ cup **fresh ginger** (cut into thin shreds) and ½ cup **shallots** or mild onion (cut in thin strips). Stir together ½ cup **lime juice,** 1½ tablespoons **sugar,** and 1 tablespoon **fish soy** or soy sauce until sugar dissolves; mix with fish. Cover and chill up to 4 hours, if desired.

Just before serving, stir in ½ cup minced **salted roasted peanuts.** Place on serving plate and arrange **butter** or green leaf **lettuce leaves** around it; garnish with **fresh coriander** (cilantro) **sprigs.**

As an appetizer, spoon fish mixture into lettuce leaves, top with cilantro, roll up to eat. Makes 10 to 12 appetizer servings, 4 entrée servings.

Shiny Noodles with Shrimp and Pork

- Water
- 5 to 6 ounces bean threads or 8 ounces spaghetti
- 1 tablespoon salad oil
- ½ pound ground pork
- 1 large clove garlic, pressed or minced
- ½ cup thinly sliced green onion
- Lime dressing (recipe follows)
- ¼ pound small cooked shrimp
- 2 small heads (about 1 lb. total) red or green leaf lettuce
- Lime wedges
- Sprigs of fresh coriander (cilantro)

In a 5- to 6-quart pan, bring 3 to 4 quarts water to boiling. Add the bean threads or spaghetti and cook until barely tender to bite, 2 to 4 minutes for bean threads, about 9 minutes for spaghetti. Drain and rinse well with cold water; drain well. Cut through noodles so strands are about 8 to 10 inches long.

In an 8- to 10-inch frying pan, combine oil, pork, and garlic; stir over medium-high heat until pork is browned and crumbly. Discard fat. Stir in noodles, onion, lime dressing, and shrimp.

Separate lettuce into leaves; wash, dry, and chill. Place lettuce, lime, and coriander around noodle mixture.

To eat, spoon some of the noodle mixture onto a lettuce leaf, top with a squeeze of lime and a coriander sprig and roll up. Makes 3 entrée servings, 8 to 10 appetizer servings.

Lime dressing. Stir together ½ cup **lime juice,** ¼ cup **sugar,** 2 to 3 tablespoons **fish soy** or soy sauce, and ½ to ¾ teaspoon **crushed dried hot red pepper.**

Vegetables and Eggs with Red Chili Dressing

- 2 packages (5½ oz. *each*) raw fried tofu (*nama age*), optional
- 2 tablespoons salad oil
- Red or green leaf lettuce
- ½ pound bean sprouts
- 1 cup cherry tomatoes, cut in halves
- 1 large carrot, peeled and thinly sliced
- 4 to 8 hard-cooked eggs, cut in halves
- Whole green onions
- Lime wedges (optional)
- Chili dressing (recipe follows)
- About 6 ounces potato chips

If using tofu, add oil to a 10- to 12-inch frying pan and place over medium-low heat. Brown the tofu on both sides, 7 to 8 minutes total. Remove from pan and cut crosswise into ¼-inch strips.

Line 4 individual plates with lettuce leaves. Top with equal portions of bean sprouts, tofu, tomatoes, and eggs. Garnish with green onions and lime.

To eat, spoon chili dressing over salad, top with a squeeze of lime, and crush potato chips over top. Makes 4 entrée servings.

Chili dressing. Remove stems and seeds from 2 ounces (5 to 7 large) **dried red California** or **New Mexico chilies.** Soak in **hot water** to cover until soft, about 45 minutes. Drain and coarsely chop. In a food processor or blender, purée ½ cup **coconut milk** (canned or frozen), chilies, 12 large cloves **garlic,** and ⅓ cup sliced **shallots** or mild onion. In a 10- to 12-inch frying pan, stir the chili paste over low heat until no longer raw-tasting, 5 to 10 minutes.

Stir in 1½ tablespoons **sugar,** 2½ tablespoons **lime juice,** ⅔ cup coarsely ground or finely minced **salted roasted peanuts,** and 1¼ cups **water.** Simmer, uncovered, stirring until it thickens, about 15 minutes. Add **salt** to taste. Let cool to room temperature to serve. □

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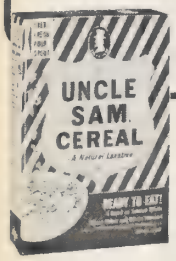

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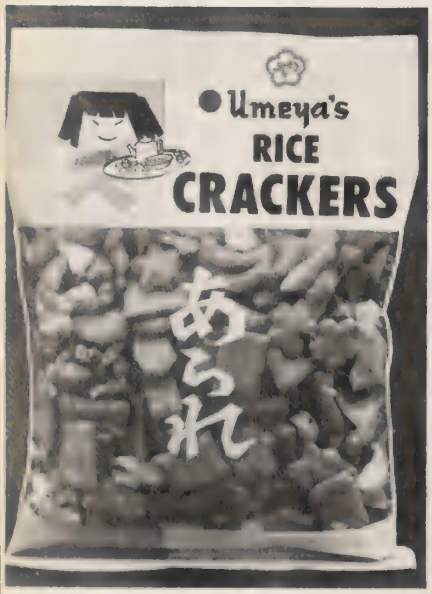

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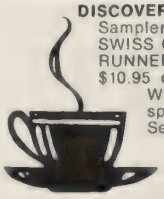

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DARROW M. WATT

Stir *ice-cold Mexican-style beverage with fresh green onion for added flavor*

Tomato-orange sangrita . . . it bites

In Mexico, *sangrita,* a bitingly refreshing tomato-based punch, is served in tiny glasses as a chaser to tequila. But served straight, tall, and ice cold, this juice combination makes an eye-opening breakfast bracer or afternoon beverage on its own.

Here, tomato and orange or cranberry combine with fresh lemon or lime and hot seasoning to make a piquant drink.

To salt the rims of glasses, dip them into water, then into coarse salt. If you like, grind a little black pepper into each serving.

Tomato-Orange Sangrita

- 1 cup tomato juice
- 2 cups fresh-squeezed orange juice
- ½ cup lemon or lime juice
- ¼ teaspoon liquid hot pepper seasoning
- Ice cubes
- 4 green onions (with tops)

Combine tomato juice, orange juice, lemon juice, and liquid hot pepper seasoning. Pour into ice-filled tumblers. Put a green onion in each glass to use as a stirrer. Makes 4 servings.

Tomato-Cranberry Sangrita. Follow directions for Tomato-Orange Sangrita, increasing tomato juice to 1½ cups; substitute 1½ cups **cranberry juice cocktail** for orange juice. Makes 4 servings. ▫

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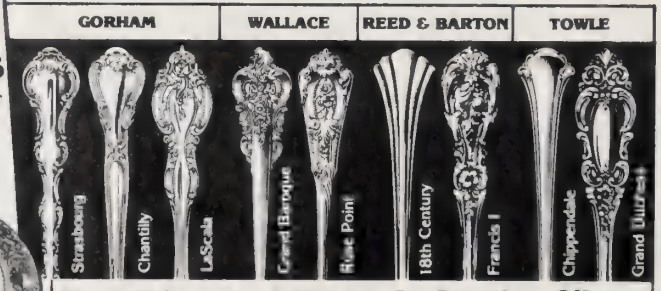

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DAVID STUBE

Shape the crust *by pressing crescent roll dough into pan and sealing edges together*

Quick and crusty appetizer pizza

Bake a pizza blind (empty) to make a sturdy crust for pick-up-to-eat appetizers. It's a simple process when you start with refrigerator crescent rolls, then fill when cool with a choice of spreads.

Quick Appetizer Pizza

To make the crust, separate into sections 1 tube (8 oz.) **refrigerator crescent roll** dough. Arrange sections to cover the bottom of an ungreased 12-inch pizza pan or 9-inch-square baking pan. Press firmly over pan bottom and up pan sides to form a solid, evenly thick crust. Bake in a 350° oven for about 15 minutes or until golden. Cool in pan, then loosen with a spatula and place crust on a tray or a serving platter.

Prepare one of the following fillings, spread it evenly in crust, and top as directed. Serve; or, if made ahead, cover and chill as long as overnight, then bring to room temperature. Cut into small wedges or squares to eat. Makes 10 to 15 appetizer servings.

Rumaki pâté. Mash ½ pound **braunschweiger liver sausage** and mix with ¼ cup **tomato-based chili sauce.** Drain 1 can (8 oz.) **water chestnuts** and coarsely chop; stir into mixture. Top with 6 to 8 slices crisp cooked **bacon,** crumbled.

Clam and cheese. In a blender, whirl until smooth 1 cup **small curd cottage cheese,** 1 clove **garlic** minced or pressed), and 2 to 3 teaspoons **lemon juice.** Stir in 1 can (6½ oz.) **minced clams,** drained, and season to taste with **dry basil, salt,** and **liquid hot pepper seasoning.** Garnish top with ¼ cup finely chopped **parsley.**

Light 'n Luscious Summer Salads.

Karo and California Summer Fruits make it simple. Light 'n luscious summer salads start with fresh peaches, plums and nectarines. And nothing tops them off better than these zesty salad dressings made with Karo Corn Syrup. Karo helps to lock in all the natural fresh flavor of summer fruits, while balancing and blending the flavors to make a light, delicious and silky smooth dressing.

reamy Mustard Dressing
ı small bowl stir together ¾ cup real mayonnaise, ı cup KARO Light Corn Syrup, ½ tsp dry ustard, ⅛ tsp salt and dash pepper until smooth. dd ⅓ cup finely chopped plums or nectarines ˙ peeled peaches; stir until well blended. over; chill 2 hr to blend flavors. Serve ver cooked cubed meat or poultry, and iced fruit and vegetables. Makes ⅓ cups.

reamy Curry Dressing: Fol- ow basic recipe. Omit mustard. dd ½ tsp grated lemon nd and ½ tsp curry powder. Iakes 1⅓ cups.

reamy Oriental Dressing: ollow basic recipe. Omit mustard. dd 1½ tsp soy sauce and ½ tsp round ginger. Makes 1⅓ cups.

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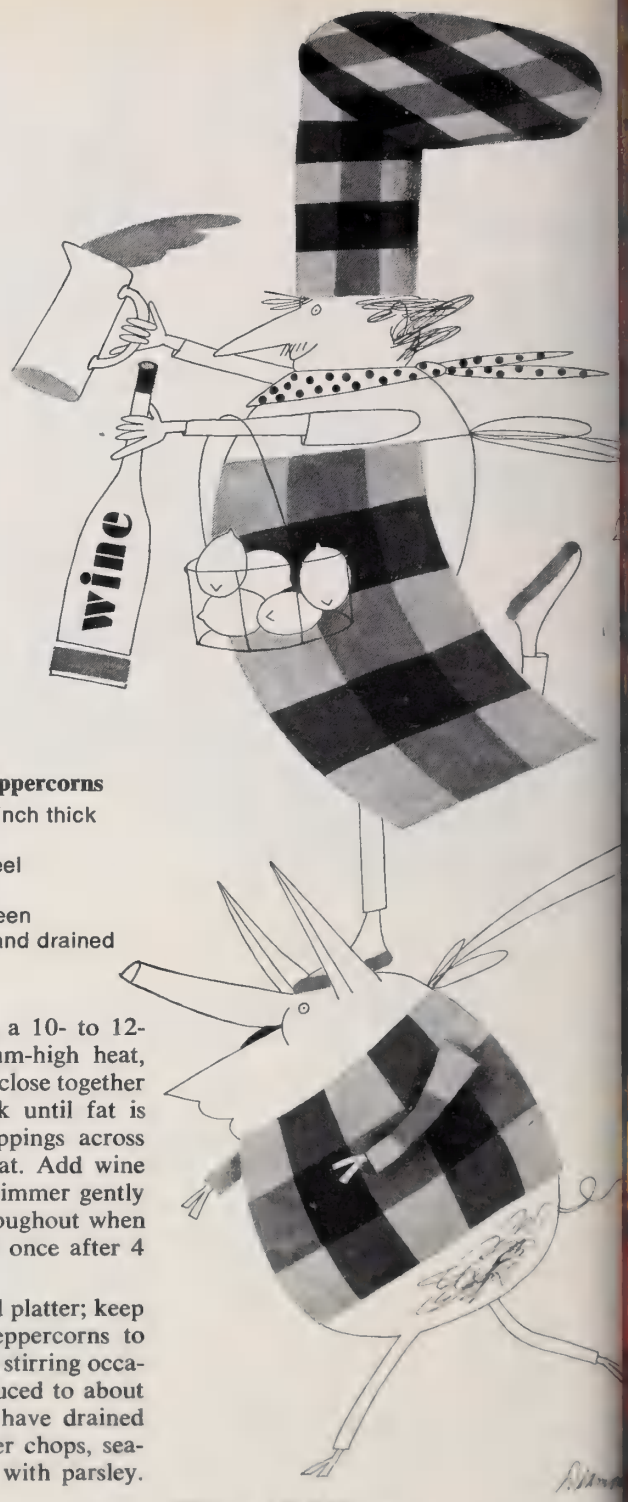
California SummerFruits™ Karo

Lemony Fruit Dressing
In 2-qt saucepan stir together ½ cup KARO Light Corn Syrup, ½ cup water, 1 tsp grated lemon rind and 1 Tbsp lemon juice. Stirring occasionally, bring to boil over medium heat and boil 5 min. Add 2 cups cut-up plums or nectarines or peeled peaches. Stirring frequently, bring to boil and boil 1 min. Mix 1 Tbsp corn starch and 2 Tbsp water until smooth. Add to fruit mixture. Stirring constantly, bring to boil and boil 1 min. Add ¼ cup chopped walnuts. Serve warm or chilled over cottage cheese and sliced fruit. Makes 2 cups.

Spice Sauce: Follow basic recipe. Omit lemon rind and walnuts. Add ½ tsp ground cinnamon and ⅛ tsp ground nutmeg.

Mint Sauce: Follow basic recipe. Omit lemon rind and walnuts. Add ¼ tsp dried mint leaves, crushed.

It takes a different cook to make a masterpiece of three or four ingredients



Simple things are often difficult. Therein is contained the central paradox of cooking, and perhaps of life.

Bread, for instance, is basically just flour and water. Spores of yeast transmute that mixture into something else, and heat winds up the job. But technique is so important. How long do you knead? How much water do you add? How long do you bake? One man's crusty loaf is another man's lump of blackened gunk.

Cheese is another example. It is simply milk to which an enzyme has been added, but then come the complications of technique again. Do you heat the solidified curd or not? How much cutting do you do during the heating? How big do you make the cheeses after that, and where do you keep them while they age? In fact, what part of what country are you doing all this in? There is, after all, Camembert and Gouda, Swiss and Provolone, all with the same simple beginnings.

Almost anyone can empty the cupboard into the pot and produce something that is at least edible. It takes a different cook to take just a few ingredients and turn out a masterpiece. A man who does this well is *Chef* David Thompson of Aptos, California. He has previously given us his spaghetti with clams. This time he browns pork chops on edges only, then simmers them with wine and lime peel; the finish includes whipping cream and subtle green peppercorns.

Technique is all-important. If you overcook the chops, or if you add too much or too little of the flavoring ingredients, then the dish will not be as it should have been. But if you have *Chef* Thompson's sense of timing and proportion, the results are simply splendid.

Pork Chops with Green Peppercorns

- 6 loin pork chops, cut ¾ inch thick
- ¾ cup dry white wine
- 1 teaspoon grated lime peel
- ¾ cup whipping cream
- 3 tablespoons canned green peppercorns, rinsed and drained
- Salt
- Parsley sprigs

Bone chops, if desired. In a 10- to 12-inch frying pan on medium-high heat, set pork chops on fat edge, close together so they stay upright; cook until fat is nicely browned. Swirl drippings across pan, then lay chops out flat. Add wine and lime peel. Cover and simmer gently until the meat is white throughout when cut, about 9 minutes; turn once after 4 minutes.

Transfer chops to a rimmed platter; keep warm. Add cream and peppercorns to pan. Boil over highest heat, stirring occasionally, until liquid is reduced to about half. Add any juices that have drained from pork. Pour sauce over chops, season with salt, and garnish with parsley. Makes 6 servings.

David Thompson

Aptos, Calif.

A crock of baked beans underneath the bough,
A broiled steak, a glass of wine, and thou
Beside me on the patio.
Ah, patio were paradise enow!

We all recognize these famous lines, but few of us know that they were written to celebrate Bill's Bar-B-Q Beans and their creator, William Stansfield.

Bill's Bar-B-Q Beans

- 1 pound dried pinto beans
- Water
- ¼ pound slab bacon
- 1 small carrot, shredded
- 2 large onions, chopped
- 1 clove garlic, minced or pressed
- 2 beef bouillon cubes
- 2 tablespoons chili powder
- ¾ teaspoon ground cumin
- ¼ teaspoon crushed dried hot red pepper
- 2 cans (15 oz. each) tomato sauce

Sort through beans and discard any foreign matter. Place beans in a commodious bowl; rinse and drain until the water is clear. Then cover the beans with

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Hormel Bacon Bits 100% real bacon.

"Sort through the beans and discard any foreign matter"

water and let them soak overnight.

Cut bacon in ½-inch cubes and put in a 5- to 6-quart kettle over medium heat. Cook bacon until brown on all sides.

Lift out bacon and set aside. Discard all but 3 tablespoons of the drippings; add carrot, onion, and garlic and cook, stirring occasionally, until onion is limp. Drain beans and add to onion mixture with 4 cups water, bouillon cubes, chili powder, cumin, bacon pieces, and red pepper. Bring to a boil, cover, reduce heat, and simmer for 1 hour.

Stir in tomato sauce and simmer, covered, until beans are tender to bite, about 1¼ hours longer. For a thicker consistency, simmer beans uncovered during the last half hour of cooking. Makes 8 to 10 servings.

William Stansfield
San Jose, Calif.

Ever poach a pear? Richard Stephens does it with small whole pears, which you can find in the market when Bartlett season begins, and will certainly find if you have your own Seckels in the garden. These are easy to do and rather festive.

Mr. Stephens takes out the core from the bottom so that he can leave the stem protruding from the top. Alternatively, he simply doesn't core the pears at all. You have your choice. He probably wouldn't even mind if you cut the things in half. It won't change the flavor.

Wine-poached Pears

- 4 to 6 small firm-ripe Bartlett pears
- 2 cups Muscat Canelli or late-harvest sweet Johannisberg Riesling
- 2 cups dry red wine

Peel pears. Leave stem in place, but remove core, if desired, with an apple corer, inserting it through the blossom end. Lay pears side by side in a 5- to 6-quart kettle. Add wine and turn pears over to coat evenly. Bring to a boil, cover, reduce heat, and simmer until pears are just tender when pierced, 10 to 20 minutes.

Lift out pears and arrange in a shallow serving dish; set aside. Turn heat to high and boil until wine mixture is reduced to about ⅔ cup; pour over pears. Let stand at room temperature up to 4 hours before serving, or cover and refrigerate until next day, basting pears several times with wine mixture.

To serve, place pears in individual dessert glasses. Spoon wine mixture evenly over top. Makes 4 to 6 servings.

Richard Stephens
Seattle, Wash.

Bob Clover's Buffet Biscuits are richer and taster than your run-of-the-oven biscuits. Eggs confer a richness like that of shortcake, while cheese and onions give them an ineffable savor.

Serving biscuits by the whole panful makes a more tailored presentation than merely heaping them in a basket. You can break off a scored, not cut, biscuit with just one hand, leaving the other free for conversation.

To serve the biscuits at a buffet, Clover suggests placing them next to the plates at the starting point. Guests will find it easier to butter them before they have loaded their plates with spillables.

Bob's Buffet Biscuits

- 1 package (40 oz.) baking mix (biscuit mix)
- ¾ cup freshly grated Parmesan cheese
- ¾ cup finely chopped green onions (including some tops)
- 2 eggs, slightly beaten
- 2 cups milk

In a large mixing bowl, stir until well combined the baking mix, ½ cup of the cheese, the onions, eggs, and milk. Scrape dough into a well-greased 9- by 13-inch baking pan. With a well-floured hand, pat dough in an even layer. Evenly sprinkle the remaining ¼ cup cheese over top. With a well-floured wide spatula, score dough into 24 to 30 individual biscuits by cutting down through dough to bottom of pan.

Bake in a 350° oven for 40 to 45 minutes, or until top is well browned and a wooden pick inserted in center comes out clean. Invert pan onto a wire rack, then invert rack with biscuits onto a serving board or platter. Makes 24 to 30 biscuits.

Bob Clover
Sausalito, Calif.

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TERI SANDISON

Onions, tomatoes, *and red and green bell peppers, easy to manage on skewers, cook until soft and charred, then are marinated in a tangy dressing while leg of lamb roasts on barbecue*

Shashlik skewers, potato wedges, Oriental eggplant and mushrooms . . . these are vegetables that barbecue along with the meat

Rich, seared-in, lightly smoked flavors that meat acquires when grilled over coals are delicious elements to combine with fresh vegetables. And for greatest efficiency, as well as good taste, use the barbecue to cook both the meat and vegetables as these three recipes suggest.

The spirit of nomadic campfire cookery is captured in this first combination. Bell peppers, tomatoes, and onions contained on long skewers char sweet and soft when cooked. They rest in a piquant dressing as a leg of lamb roasts.

In the second meal, steak, potatoes, and onions take on a new look. Wedges of raw potato grow golden over hot coals, thick beefsteak grills, and tender green onions are briefly heated.

Oriental vegetables, seasonings, and cooking techniques work together in the last presentation.

To prepare the fire for any of the three recipes, arrange a solid bed of charcoal briquets in your barbecue's fire bed; mound and ignite them. When the coals are completely covered with gray ash, spread to form a single layer. Set cooking grill 6 inches above hot coals.

To cook a leg of lamb as well as the vegetables, you need a covered barbecue. When vegetables are done, adjust the fire and follow manufacturer's directions for indirect cooking. The leg will take 1 to 1½ hours to reach medium-rare (150° in the thickest part).

Shashlik Vegetables

- 3 *each* large red and green bell peppers, rinsed
- 3 to 4 large firm tomatoes (3- to 3½-inch diameter), rinsed
- 3 unpeeled onions (about 3-inch diameter), cut in half crosswise
- Caper dressing (recipe follows)

On 4 long metal skewers, impale each vegetable separately through stem or root ends. Lay vegetables on grill above a fire prepared according to preceding directions. Cook, turning frequently, until vegetables are charred in spots and soft when pressed; allow 40 minutes for onions and 20 to 25 minutes for peppers and tomatoes.

Slide vegetables off skewers. When cool, core and seed peppers, core tomatoes and cut off ends and slip outer skin off onions. Arrange vegetables in a shallow serving dish and pour the caper dressing over them. Cover and let stand at least 1 hour (or chill, covered, up to 24 hours; serve at room temperature). Serves 6.

Caper dressing. Blend ¼ cup **white wine vinegar,** ¾ cup **olive oil,** 2 cloves **garlic**

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TERI SANDISON

Green onions *join barbecued potato chunks and steak on grill; mustard butter warms to serve with all*

(minced or pressed), 2 tablespoons drained **capers,** and ¼ teaspoon **pepper.**

In the next recipe, green onions, lightly barbecued, become toasty in spots, sweeter in flavor, and chewier in texture than when raw. A precooking soak in salted water seasons the vegetables. Grill-warmed mustard butter flavors potatoes, steak, and onion.

Steak, Potato, and Onion Grill

18 green onions
2 quarts cold water mixed with 2 teaspoons salt
6 medium-size (about 2 lbs.) thin skinned potatoes, scrubbed
Mustard butter (recipe follows)
2-inch-thick porterhouse, T-bone, or section of sirloin steak (about 2½ to 3 lbs.)

Cut root end from onions, peel off outer layer, and trim tops, leaving about 4 inches of green. Immerse in salted water. Cut potatoes in eighths, lengthwise, and immerse in salted water.

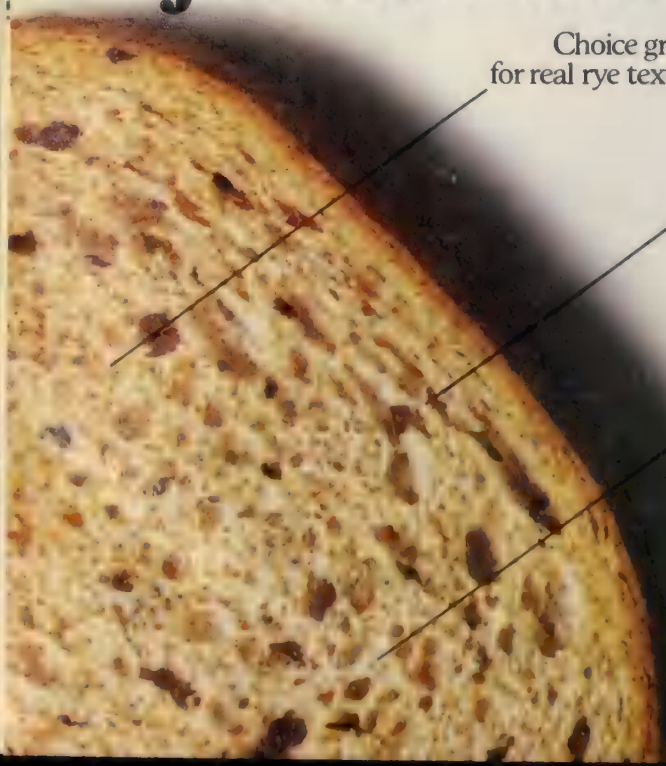
Put steak over fire prepared according to preceding directions and cook until done to your liking; allow about 15 minutes a side for rare meat.

Concurrently, lift potatoes from water, drain, then mix with ¼ cup mustard butter. Arrange about half the potatoes over coals without overlapping. Turn potatoes as needed until well browned and tender when pierced, about 10 minutes. As cooked, push to a cool section of grill (no coals beneath). Put remaining potatoes over fire as space is available.

Just before meat is ready, lift onions from salted water and lay over coals; cook until white part is tinged with brown and tops are limp, about 5 minutes. To serve, slice steak and accompany meat, potatoes, and onions with mustard butter. Serves 6.

Mustard butter. Blend 1 cup (½ lb.) melted **butter** or margarine with 3 tablespoons **Dijon mustard** and ¼ cup minced

Oroweat Russian Rye. The Old World recipe makes it taste just like it did in the mother country.



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llots or mild onions. You can keep ter hot on barbecue as onions grill, if ired. Serve hot.

kitori Chicken and Vegetables

large whole chicken breasts (about 1½ lbs. each), boned and skinned
Sherry-soy marinade (recipe follows)
medium-size Japanese eggplant
to 18 large fresh shiitake mushrooms or regular mushrooms, or a combination
tablespoons toasted sesame seed

C each chicken breast in half; cut each into 6 or 7 equal cubes. Place ken cubes in a bowl with ¼ cup of marinade; mix gently. Cover and let d at least 1 hour at room temperature up to 8 hours in the refrigerator. ead chicken cubes equally on 6 bam- or thin metal skewers.

e eggplant and mushrooms and pat Starting about ½ inch from ends, e 4 equidistant lengthwise slashes in lant, about ⅓ inch deep. Cut mush- stems flush with cap.

ggplant on a greased grill over a fire ared according to preceding direc- . Cook, turning frequently, until lant is very soft when pressed and is tly charred, 30 to 35 minutes.

r the eggplant has cooked about 20 tes, dip mushrooms in marinade, briefly, set on grill cup side down. Cook about 5 minutes, then turn cup side up and cook about 5 minutes more until softened and lightly browned. At the same time, lay chicken skewers on greased grill and cook, turning occasionally, until chicken is no longer pink in center when slashed, 10 to 12 minutes.

Arrange chicken skewers, mushrooms, and eggplant on a large shallow serving platter. Pull eggplant apart at a slash to expose flesh. Moisten surface of chicken and vegetables with marinade, sprinkle with the sesame seed. Accompany with any remaining marinade. Serves 6.

Sherry-soy marinade. Stir together ⅓ cup **dry sherry,** 3 tablespoons *each* **soy sauce** and **sesame oil,** and 1½ teaspoons finely minced **fresh ginger.** □

Skewer of chicken breast, *flanked by eggplant and mushrooms, were all grilled together and seasoned with a sherry-soy sauce and sesame seeds*

DAVID STUBBS

Bright raspberries, *surrounded by a piquant orange sauce, are buried under sugar-dusted soft meringue and broiled*

For warm-weather cooler, *berries float in sparkling water splashed with liqueur*

Desserts and a cooler to show off the raspberry's personality

Swirls *of rich no-cook almond pastry cream separate raspberries in chilled dessert*

The personality of a raspberry changes with its temperature. Warm, its fragile juiciness is emphasized; chilled, its tartness is more pronounced. Our four recipes acknowledge these tendencies.

The first two are desserts that protect the berries with billowy toppings: one employs a thick meringue and a fresh orange sauce, the other a wine-sweetened zabaglione. The berries are gently warmed as their toppings broil, and the heat-softened fruit mingles colorfully with the sauces. Serve at once.

In the third recipe—an ice-filled cooler of sparkling water—the tart raspberry flavor is heightened by a ruby touch of either raspberry liqueur or raspberry syrup. Sip this light drink on a hot afternoon, spooning out whole berries as you go along.

A lavish uncooked almond cream, reminiscent of Russian pashka, is the last dessert; cold raspberries provide appealing contrast in color and flavor.

Raspberries Under a Cloud

- 2 cups raspberries
- 3 egg whites
- 1 teaspoon vanilla
- ¼ teaspoon cream of tartar
- ½ cup granulated sugar
- 3 tablespoons powdered sugar
- Orange sauce (recipe follows)

Place raspberries in a single layer in the center of a 10- to 12-inch rimmed ovenproof serving plate (or a decorative shallow tart pan).

In a large mixing bowl, combine egg whites, vanilla, and cream of tartar. Beat with an electric mixer at high speed until frothy. Gradually add granulated sugar and continue beating until stiff peaks form when beaters are lifted from whites.

Swirl meringue over raspberries, leaving a 1-inch border of berries. Sift powdered sugar evenly on top. Broil 6 inches from heat to brown lightly, about 2 minutes. Pour orange sauce around the side of the raspberries (not on meringue). Serve hot.

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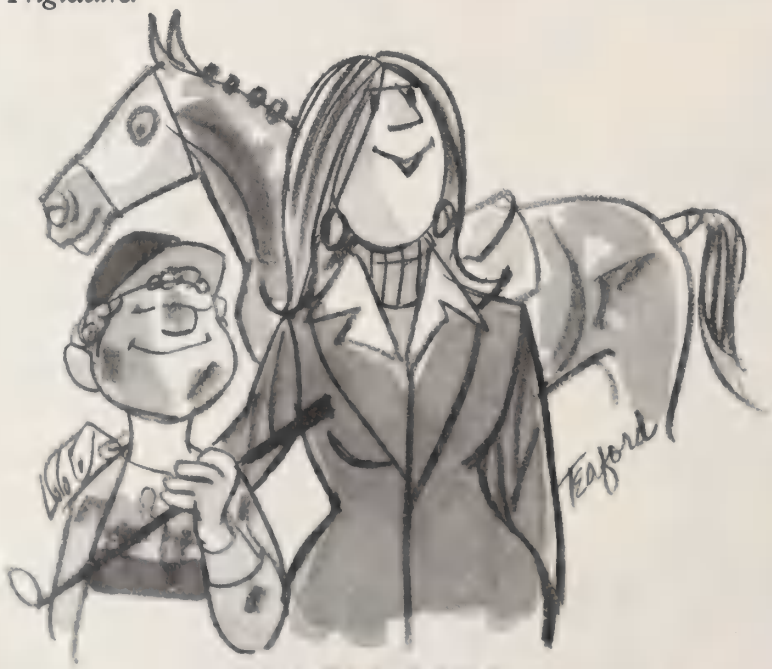

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or slightly warm. Makes 6 to 8 servings.

Orange sauce. In a 1- to 1½-quart pan, stir ½ cup **sugar** with 1½ tablespoons **cornstarch.** Blend in 1 cup **orange juice** and 1 thin slice *each* of **orange** and **lemon** (including peel), cut in quarters. Stir constantly over high heat until sauce boils and thickens. Remove from heat; add 3 tablespoons **lemon juice** (if made ahead, store at room temperature). Use hot or cold.

Raspberries with California Zabaglione

- 3 cups raspberries
- 4 egg yolks
- ¼ cup sweet or late-harvest white wine such as Chenin Blanc, Johannisberg Riesling, or Gewürztraminer
- 2 tablespoons granulated sugar
- ¼ cup powdered sugar

Place 2½ cups of the raspberries in a single layer in the center of a 10- to 12-inch rimmed ovenproof serving plate (or shallow tart pan).

In a 3- to 4-quart pan, beat egg yolks, wine, and granulated sugar to blend. Set on medium-low heat and beat with an electric mixer on high speed until mixture triples in volume and soft peaks begin to form, about 7 minutes.

Remove from heat and pour over raspberries. Sift powdered sugar evenly onto the egg cream. Broil 6 inches from heat to brown top lightly, about 30 seconds. Scatter remaining berries over the top and serve immediately. Makes 6 servings.

Double Raspberry Cooler

- 3 cups cracked ice
- 1½ cups raspberries
- 12 thin lemon slices
- ¾ cup black raspberry liqueur (or raspberry syrup)
- About 3 cups sparkling water

Divide ice, raspberries, and lemon slices equally among 6 glasses (8-ounce size). Pour about 2 tablespoons liqueur into each glass. Fill with sparkling mineral water; serve with spoons so you can muddle fruit. Makes 6 servings.

Raspberry Almond Cream

- 1 small package (3 oz.) cream cheese
- ½ cup powdered sugar
- 2 tablespoons almond-flavored liqueur
- 1 cup whipping cream
- 3 cups raspberries

In a 2- to 3-quart deep bowl, beat together cream cheese, sugar, and liqueur with electric mixer at high speed until smooth. Still beating, pour in cream in a steady stream (mixture should be the consistency of stiffly whipped cream at all times; if it looks soft, stop adding cream and continue to beat until mixture thickens). If made ahead, cover and refrigerate up to 6 hours.

Line the bottom of each of 6 dessert bowls with ⅓ cup of raspberries. Mound almond cream equally over each, then top with remaining berries. Serves 6.

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DAVID STUBBS

Summer pastry bowl *holds a wilted spinach and chicken liver salad—simple enough for a quick family meal, elegant enough for guests*

AUGUST MENUS

Spinach salad in a pastry bowl, shortbread snack, lamb shanks on the barbecue

In anticipation of August's heat, menus this month emphasize cooking that you can start in the cool of the day. Economy and simplicity are the focus for these family meals, which make use of seasonal produce. Styling makes the menus suitable for guests as well.

Consider the dramatic pastry bowl salad for lunch or supper, the coffee and shortbread menu for brunch or late evening refreshment, and the barbecue of lamb shanks for a weekend gathering.

Salad in a shell

Cream puff pastry painted into individual ramekins swells to make tender, golden bowls of pastry. Fill each with wilted spinach salad with warm chicken livers, bacon, and mushrooms.

Wilted Spinach in Salad Shells
Cucumber Spears
Gravenstein Apples and Leyden Cheese

You can bake the pastry shells and assemble the ingredients for the salad in the morning. Cooking the salad takes just a few minutes. Accompany with spears of cucumbers and a cool beverage. Sweet Gravenstein apples go well with the cumin-laced Dutch Leyden, or you might try bold Havarti or Münster cheese.

Wilted Spinach in Salad Shells

⅓ cup butter or margarine
1 cup *each* water and all-purpose flour
4 eggs
Spinach salad (recipe follows)

In a 2- to 3-quart pan, bring butter and water to boiling, stirring until butter melts. Reduce heat to medium and add flour all at once. Cook, stirring constantly, until dough leaves sides of pan and forms a smooth ball, about 1 minute. Remove from heat and beat in eggs, one at a time, until mixture is smooth and shiny. Spoon equal portions into 4 buttered 5- to 6-inch shallow ramekins (or pie pans); spread dough evenly over bottom and swirl around sides. Bake in a 400° oven until deep golden brown and puffed, about 25 minutes.

Use shells slightly warm or cool; if made ahead, let cool, then wrap airtight as long as overnight. Fill shells (in or out of baking pans, as desired) with spinach salad and serve at once. Makes 4 servings.

Spinach salad. Wash leaves and discard stems from 1 pound **spinach.** Pat leaves dry; if prepared ahead, cover and chill.

Cut ½ pound sliced **bacon** into 2- to 3-inch-long pieces. Cook in a 5- to 6-quart pan over medium-high heat until crisp, stirring occasionally. With a slotted spoon, set bacon aside to drain. Measure drippings and add enough **salad oil** to make ½ cup. Place in the same pan and add about ½ pound **enoki mushrooms** (or slivered regular mushrooms); 2 teaspoons *each* slivered **fresh ginger** and **dry**

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DAVID STUBBS

Triangle *of butter-crisp shortbread is substitute for morning pastries. Serve with fancy coffee, fresh fruit*

mustard; and 1 clove **garlic,** minced or pressed. Cook on high heat, stirring, until mushrooms are just limp (about 30 seconds for enoki, 3 minutes for regular mushrooms). Lift ingredients out with a slotted spoon and put on a plate.

Cut 1 pound **chicken livers** in halves. Add half the livers to drippings and cook over medium-high heat, turning once, until lightly browned and still slightly pink in the center, about 2 minutes (or cook more, if desired). With a slotted spoon, transfer liver to plate with mushrooms. Repeat to cook remaining livers.

Drain juices from mushroom plate into drippings and add ¼ cup **white wine vinegar.** Reserve 16 to 20 large spinach leaves and add remaining spinach to the pan; heat, stirring, just until warm, about 30 seconds. Remove from heat and gently mix in bacon, mushrooms, and livers. Place reserved spinach leaves in **pastry shells** and add hot salad. Serve drippings as extra dressing.

A snack for early or late

In this menu, old-fashioned, mildly sweet Scottish shortbread becomes an alternative to traditional morning pastries. Serve with fresh fruit and a fancy coffee. The menu is also suitable for a light dessert after the theater.

Geometric Shortbread
Coffee Almond **Fresh Cherries**

Bake the cookies early in the morning or late in the evening. Cut into squares, rectangles, or triangles. You have a choice of almond extract or liqueur to flavor the coffee and milk.

Geometric Shortbread

1 cup (½ lb.) butter or margarine, melted
1¾ cups all-purpose flour
¾ cup cornstarch
About ½ cup sugar

Blend butter with flour, cornstarch, and ½ cup of the sugar, stirring until dough holds together. Press evenly in an ungreased 9-inch-square pan. Bake in a 325° oven until golden, about 50 minutes. While hot, prick surface all over with a fork; sprinkle with enough additional sugar to make sparkly. Cut with a sharp knife into about 24 pieces.

When cookies are warm or at room temperature, carefully remove from pan with a spatula. Serve or wrap airtight when cool and keep up to 3 days. Makes 2 dozen; allow 2 or 3 for a serving.—*S. D., Las Cruces, N. Mex.*

Coffee Almond

For each serving, brew ½ cup strong hot **coffee.** Combine in a blender or food processor with ½ cup scalding hot **milk,**

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tablespoon *each* **sugar** and **almond flavored liqueur** (or ⅛ teaspoon almond tract), and 2 teaspoons **cocoa;** whirl til frothy (hold on blender lid since hot ixtures make it pop off). Pour into an to 10-ounce glass or mug. Top with 2 3 tablespoons of whipped cream and a w sliced almonds, then dust lightly th ground cinnamon.

Patio dinner

curry-seasoned broth is used to flavor th the lamb and potatoes in this menu. rt of the broth is used to make a shiny ze for the precooked shanks as they eat on the barbecue.

Barbecued Lamb Shanks with Cold Potato Curry
nflavored Yogurt **Sliced Tomatoes**
Persian Melon with Lime Wedges

gin by cooking part of the vegetables the potato curry, then make the seaed broth in which you bake the lamb l boil the potatoes; these steps can be e in the morning. The lamb juices are n blended with honey and boiled to centrate flavors for the barbecue te. Offer meat and potatoes with about ups unflavored yogurt to spoon on as optional sauce, and have a platter of o 6 large sliced tomatoes. Serve crescents of Persian or Crenshaw melon for dessert, accompanied by lime wedges.

Barbecued Lamb Shanks with Cold Potato Curry

¼ cup salad oil
1 large onion, cut in slender wedges
1 large green bell pepper, cored, seeded, and cut in slender strips
Curry spices (directions follow)
1½ cups regular-strength chicken broth
About ½ cup lemon juice
3 pounds thin-skinned potatoes (about 2-inch diameter), scrubbed and quartered
Salt
2 tablespoons chopped fresh coriander (cilantro)
6 lamb shanks (about 1 lb. each), uncracked
⅓ cup honey

In a 5- to 6-quart kettle, heat oil over medium-high heat. Add onion and pepper; cook and stir until tender-crisp to bite, about 5 minutes. With a slotted spoon, lift out vegetables; set aside.

Add curry spices to pan; stir about 30 seconds. Add broth and ⅓ cup of the lemon juice; bring to a boil. Measure out ½ cup broth; set aside. Add potatoes, reduce heat, and simmer, covered, until tender when pierced, 20 to 25 minutes. Remove potatoes from heat; salt to taste. Let cool to room temperature (if made early in the day, let stand at room temperature). Just before serving, mix with onions, peppers, and coriander.

While potatoes cook, place lamb in a single layer in a rimmed baking pan (about 10 by 14 inches). Blend honey with reserved curry broth; pour over lamb. Cover pan tightly with foil. Bake in a 425° oven until lamb pulls easily from bones, about 2 hours. Lift lamb from pan; set aside. On high heat, stirring to scrape browned bits free, boil roasting juices in pan until reduced to about 1 cup. Remove from heat; add remaining lemon juice (if made early in the day, cover and chill lamb and juices).

To reheat, place lamb on lightly greased barbecue grill about 6 inches from a solid bed of low-glowing coals (you should be able to hold your hand above the grill for about 5 seconds). Brush lamb frequently with pan juices (melt on low heat if congealed). Turn shanks often, until heated and browned, about 15 minutes. Sprinkle with salt to taste and accompany with any remaining juices.

Offer potatoes with lamb. Serves 6.

Curry spices. Mix together 2 tablespoons finely chopped **fresh ginger;** 2 teaspoons *each* **cumin seed, ground coriander,** and **turmeric;** 1 teaspoon **fennel seed,** crushed; ¼ to ½ teaspoon **cayenne.** □

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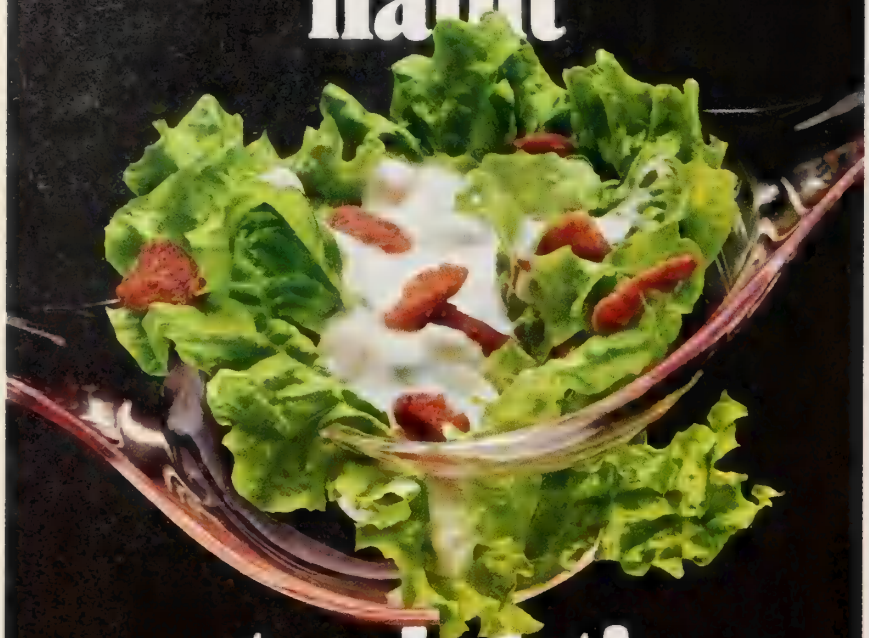
Break the boring salad habit



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DARROW M. WATT

Individual serving *of horseradish aspic is garnished with green onion, olives. Present it with roast beef, tomatoes*

Aspic with clout . . . horseradish

Shimmering aspic, with just a hint of horseradish pungency, makes a distinctive condiment to serve with a cold lunch or supper entrée of roast beef or other cold meats. You simply combine well-drained prepared horseradish with beef broth and gelatin, chill until firm in individual small tart pans or aspic molds, then unmold to serve.

When shopping, be sure to select plain (not cream-style) horseradish.

Individual Horseradish Aspics

- ¼ cup prepared horseradish
- 1 envelope unflavored gelatin
- 1 can (14½ oz.) regular-strength beef broth
- 1 tablespoon sugar
- 2 tablespoons lemon juice

Spoon horseradish into a fine wire strainer. Using the back of a spoon, press out as much liquid as possible; set horseradish aside.

In a 1½- to 2-quart pan, sprinkle gelatin over broth and let stand about 5 minutes to soften. Add sugar, then stir on low heat until gelatin and sugar dissolve. Remove from heat and stir in lemon juice.

Set pan in a large bowl filled with ice and stir until gelatin mixture is cool and begins to thicken, about 5 minutes. Add horseradish and stir to blend. Spoon equally into 6 to 8 individual metal molds (such as tart pans), about ⅓-cup size. Cover and chill until set, at least 6 hours or as long as 3 days.

To unmold, hold each mold by top rim and dip quickly into hottest tap water, then invert at once onto serving plates. Makes 6 to 8 servings.

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AUGUST IN YOUR GARDEN:

Here comes the harvest . . . but maybe also brown patches, bird marauders, yellow leaves. Here are solutions

s **summer heats up** this month, your ring-planting efforts should be paying f with harvests of fresh vegetables and t flowers. Besides reaping the bounty, ur primary garden tasks will be water-g, fertilizing, and grooming plants. En-getic gardeners can take advantage of me summer-planting opportunities (see e check list on the next page).

rown patches in your St. Augustine wn? Chinch bug may be the culprit

me readers in northern California ve reported that their St. Augustine wns are suffering from dying patches ested by tiny black-and-white insects. ese are Southern chinch bugs (*Blissus ularis*), which can destroy lawns if y get out of control.

u can check for chinch bugs by using arge can (such as a 2-pound coffee can) th bottom and top removed. Firmly screw it down into the turf in an area that is half-affected, half-unaffected. Let the hose run slowly to keep the can filled with water. Among the creatures that float to the top, watch for the black and white forms of adult chinch bugs and bright red specks of immature ones.

If your lawn is under attack, apply diazinon or dursban spray or granules according to label directions for chinch bugs. After application, water thoroughly to ensure that the insecticide is washed off the leaves and down into the crowns of the grass plants where the insects are hiding. But don't flood so much that the insecticide washes away.

Ten days later, repeat the can-trapping test; if necessary, repeat the insecticide application.

on crocus . . . you get le more each year

s of the saffron crocus (*C. sativus*) in nursery bulb bins early in st. To get bloom in September or er of the first year, plant them n as you find them. Plant corms es deep and 3 inches apart in rained soil that gets fall and winter n hot inland climates, flowers last with midday shade.

rs increase in number a little ear, thriving best in soil that bakes summer. To mark their location g summer dormancy, plant a low, what open ground cover over now—here you see flowers from rm growing through *Sedum* . The plants' own grass-like leaves as flowers fade, then die in summer.

g flowering and growth, water rly and bait for snails and slugs.

ke the spice, collect the three red s in each flower as soon as le after flowers open, let them y, and store in an airtight vial. hole, or pulverize with a mortar estle just before using. Stigmas a dozen flowers can season one latter of food.

Drying and storing onions

Many gardeners will be harvesting onions this month. Onions signal their maturity when the top growth starts to wither and topple over. Dig up the bulbs, and snip off any seed stalks you may have overlooked while the onions were in the ground.

You can lay your harvested onions on the ground to dry, or you could construct a dryer such as the one pictured at right. This simple device increases air circulation for even drying.

Once the onion skin is dry and papery and tops are withered (in about a week or so), the onions are ready to store. Cut off the tops, leaving about an inch of stalk, and store in a dark place that's cool and dry. Some gardeners stuff onions into nylon pantyhose hung in a storage shed or garage.

New 'Green Showers' mayten tree

Mayten trees (*Maytenus boaria*) have gained popularity in Western gardens as an alternative to water-guzzling, drain-invading weeping willows. These attractive evergreen trees have a similar weeping habit, but they live longer, can get by on less water than willows, and are somewhat drought tolerant once established.

A new variety called 'Green Showers' was recently introduced by the Saratoga Horticultural Foundation. Grown from cuttings, this mayten shows a consistently attractive branching pattern (in contrast to some seedlings where the growth pattern is unpredictable). It boasts slightly broader, 1- to 2-inch-long deep green leaves that give foliage an especially lush appearance.

Maytens grow fairly slowly: a young sapling takes about 12 years to reach a height of 20 feet with spread of 15 feet. These trees do well in lawns, but must have good drainage to thrive. Shallow roots of lawn trees may send up suckers

Sunset's
GARDEN GUIDE

Special information for high elevations, page 150

DARROW M. WATT

Onions harvested *from Lester Brubaker's Los Altos Hills garden dry on rack made of chicken wire stapled to wood frame*

Sunset's GARDEN GUIDE

that should be removed while young. Maytens are resistant to oak root fungus.

What are your plants telling you when their leaves turn yellow?

Most plants thrive with regular doses of nitrogen fertilizer since this is the nutrient that plants use most. However, some acid-loving plants—including citrus, camellia, geranium, pyracantha, rhododendron, and roses—often suffer from a lack of iron during active summer growth. This shortage happens much more in some soils than in others. It also can happen if plant roots are near a concrete wall (lime leaching from the wall can lock up iron in the soil).

Iron-shortage symptoms show up first on young leaves, which develop a yellowish cast with veins remaining green. In comparison, plants suffering from a shortage of nitrogen show that lack in older leaves, which yellow and eventually drop.

To perk up iron-needy plants, apply iron chelate or iron sulfate to the soil. These chemicals are available in liquids and powders at most nurseries. Make sure you don't spill them on walks or walls—they can stain.

Plants suffering from nitrogen shortage need a dose of nitrogen-rich fertilizer.

Foiling the birds—how do you do it?

Now that the summer harvest has begun, birds may be starting to eat your fruit. Do you use a bird-foiling device or technique that protects fruit and seedlings without harming your feathered friends? If so, we'd like to hear your bird tale, whether it's a success story or not. And if you have snapshots of any devices, we'd like to see them.

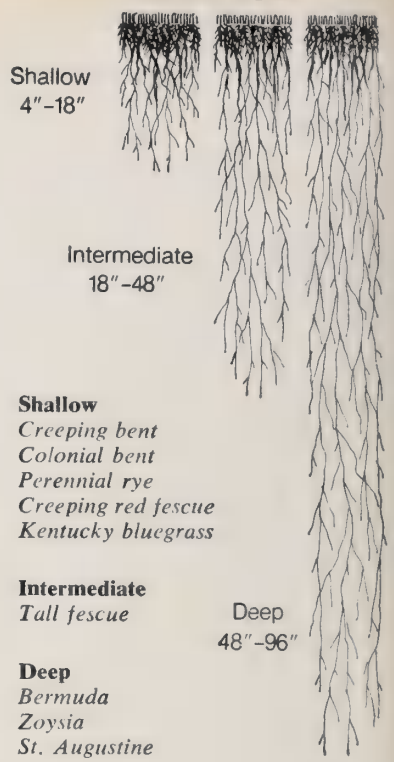
Send your report and pictures (along with your name, address, and day telephone number) to Garden Birds Report, *Sunset Magazine,* Menlo Park, Calif. 94025.

Lawn root depth is key to watering schedule

Lawns demand vigilant watering in summer to keep them lush and green. Yet differences in root depth mean that not all grass varieties thrive on the same watering schedule.

The chart at right indicates average root depths for some popular grasses. Those with deep root systems do best with deep soakings at infrequent intervals. This encourages the roots to grow to their full potential depth, and makes the lawn more resistant to water stress. Grasses with shallow root systems need watering more often, with less water applied each time (water that soaks past the root system is wasted).

Grass root depths



Also, remember that water penetration varies greatly with soil type. For example, researchers at the University of California have found that 1½ inches of water will soak down only 7 inches in a clay soil, yet penetrate 1 foot in a loam, and 2 feet in a sandy soil. It's a good idea to check how deep your water is soaking in by testing with a soil-sampling tube (available at garden supply centers for about $12). □

AUGUST CHECK LIST: *What to do this month*

☐ **Divide iris.** You still have time to divide crowded iris rhizomes. Plants three years old or older will produce more bloom next spring if divided now.

☐ **Fertilize flowers and shrubs.** If you missed feeding azaleas, rhododendrons, and camellias in July, fertilize now with an acid plant food (the last application until growth starts in spring). Also, check plants for signs of iron chlorosis, as discussed above.

Continue light, frequent (once or twice a month) feeding of begonias, fuchsias, summer annuals, and container plants. Feed chrysanthemums until buds begin to open.

☐ **Groom plants.** Remove faded flowers on roses. Cut back perennials such as coreopsis, delphinium, penstemon, and Shasta daisies after flowers fade to encourage bloom in fall. Pick off faded fuchsia blooms.

☐ **Plant vegetables.** You can set out small plants of broccoli, Brussels sprouts, cabbage, cauliflower, celery, lettuce, and parsley. Protect young plants from intense heat when first set out. In the interior valley, you can sow seeds of beets, lettuce, radish, and spinach. Along the coast, start onions (from seeds or sets), and peas.

☐ **Sow flower seeds.** If you sow seeds of fall bedding plants in containers now, they should be ready for planting by late September or early October. Winter bloomers include sweet alyssum, calendula, candytuft, fairy primrose, forget-me-not, nemesia, pansies, snapdragon, stock, and violas. Sow sweet peas in beds of soil enriched with compost.

☐ **Tend lawns.** It's a good idea to water early in the morning so grass will be dry by evening. (This reduces chances of fungus diseases.) You can feed Bermuda, dichondra, St. Augustine, and other subtropical grasses, but hold off on feeding bent, bluegrass, fescue, and rye until later in the fall. Watch for chinch bugs on St. Augustine (see discussion on page 137).

☐ **Water.** Check soil moisture often for container plants and water lovers such as ferns, baby's tears, coleus, and fuchsias. They may need daily watering in hot, dry weather. Since azaleas and rhododendrons are setting buds now, it's particularly important to keep soil evenly moist.

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Tools designed to make it easier on your back . . . you hoe, rake, spade, plant while standing straight

If your back is strong and healthy, you may never notice the hundreds of separate times you bend over when you spade a garden bed, rake leaves or soil, or plant a bed of bulbs. But if your back hurts, every bend or twist of the torso can be troublesome.

Here we show and describe some garden tools and attachments designed for gardeners with bad backs. (If you have a history of back trouble, check with your physician before you garden with any tools.) Those who wish to avoid future back problems might also profit from reviewing these tools.

Despite their differences in appearance, all of them enable gardeners to do chores standing straight or with minimal bending. Several avid gardeners with bad backs, including one octogenarian, helped *Sunset* test and evaluate them.

Simplest and least expensive is the molded plastic handle (on the fork in the collection photograph) that attaches by hose clamps to almost any tool. With this accessory handle in place, you don't have to lean down to grab the lower part of your tool's handle for leverage.

The metal attachment shown on the shovel at the far left in our collection picture is similar to the plastic handle, but a swivel lets you turn a shovelful of soil simply by twisting your wrist. Our test gardeners found the swivel handle easier to use than the stationary plastic handle. Each weighs about a pound.

To lessen back strain further while digging

When you pull back *on spring-loaded shovel, soil is thrown forward*

JERRY FREDRICK

ng with either of these handles, attach to a small-bladed shovel or spade.

he attachment shown on the rake in e collection picture and in use in the ıotograph at far left lets you keep your ınds in a level plane while working. 'he back bending in raking and hoeing mes from the angle at which you hold e tool.) This was one of our testers' vorites. It affixes to a rake, hoe, or cul- ator by hose clamps. It is metal with ıstic grips and weighs about a pound.

ng handles. The long-handled spade d fork might be welcomed by very tall rdeners—even those with strong backs. ıese tools have wooden handles that 60 inches long—a significant gain er the 50- to 55-inch-long handles ınd on most comparable tools (some ovels and forks have handles as short 36 inches). The mechanical advantage a longer handle can dramatically in- ase your digging power.

st to the right of the rake in the col- tion picture is a bulb planter with a -inch-long handle. This metal tool has ps on each side so that you can push into the soil with your foot, as you uld a shovel. A welded T-handle with ıstic grips lets you twist the tool with th hands—a boon to any gardener ding extra power to plant bulbs in rd soil. It weighs about 3 pounds.

ring loading. The Rube Goldberg- shovel pictured in action at lower is made in England. You drive the de into the soil, as with a regular vel, push the tool away from you to sen the spit of earth, then draw the ıdle back toward your body. A strong el spring contacts the ground behind blade, causing the shovel to throw loosened earth forward. The whole le takes 3 or 4 seconds.

is all-metal tool weighs about 11 ınds (a normal shovel weighs 6 to 9 ınds). The T-handle raises and lowers suit your height. An optional fork at- hes with a pair of bolts and nuts.

rces. Here are mail-order sources for se tools and attachments:

plastic handle attachment ($6.50), a-long-handled spade and fork ($22 h), and spring-loaded shovel ($100; attachment, $27.50) are available n Gardens for All, 180 Flynn Ave., lington, Vt. 04501; telephone (802) -1308.

metal swivel attachment for shovels forks ($21) and the metal handle for e, hoe, or cultivator ($16) are both l by Marco Products, 1370 Delfino y, Menlo Park, Calif. 94025. Add $1 each item to cover shipping and dling.

long-handled bulb planter ($14.95 $1 shipping) is sold by W. Atlee pee Co., Riverside, Calif. 92502. □

THIS LITTLE IVY HAD KNOX.

THIS LITTLE IVY HAD NONE.

*3 Applications

GIVE YOUR HOUSEPLANTS KNOX® UNFLAVORED GELATINE AND WATCH THEM GROW FULLER AND GREENER.

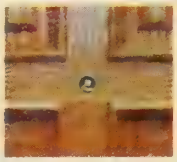
Knox Unflavored Gelatine has no artificial ingredients. But it does have lots of nitrogen, just what houseplants commonly need to flourish.

Just mix one envelope of Knox with one cup of very hot tap water to dissolve. Then slowly add three cups of cold water to make a quart of liquid. Prepare only as much of the mixture as you plan to use at one time. Once a month, use the Knox mixture as part of your normal watering pattern and you'll see amazing results as we have shown above.

And here's another important fact to remember. To help your plants grow, they need to be periodically repotted into larger pots using a standard potting soil.

For fuller, greener plants, nourish them with Knox.

A Door Should Welcome Friends And Repel Intruders.



An entry should be as uninviting as it is inviting. Which is why you'll find a complete security lockset with deadbolt on all Ponderosa entry doors.

Some of our homes come with well-positioned vertical windows adjacent to your door so you can see just who's come to visit.

Some come with tiny security peepholes that let you view the entire entry area.

Or optional intercom and burglar alarm systems.

But security is only half the story.

When is a door not a door? When it's a Ponderosa work of art.

Whether it's a six-paneled colonial beauty.

Or solid oak, complete with hand-carved embellishments.

Some of our entries come with front door bell chimes. Some with handsome clerestory windows up above.

And all with carefully selected decorator entry lighting.

Well-crafted woods and hardware and glass that make an attractive statement about your home and the people who live inside it.

Well worth the extra effort. Designing an entry as formidable as it is handsome may not be the way most builders work.

But it's the way Ponderosa does.

You see, anyone can design an entry to look good.

We just feel a house is not a home until it's safe and secure.

A craftsman's philosophy. It's all part of a philosophy that says even the smallest of details is as important as the roof it's under.

A philosophy that makes a house a home.

And a philosophy earning us award after award, including 1981's Best Large Volume Builder from the National Association of Home Builders.

Apparently they believe as we do. Great homes are born of small touches.

And that if we spend this much thought *outside* your home, just imagine how much thought we've spent inside.

For your nearest Ponderosa Development, call: Northern California— San Ramon Division (415) 838-0901 or Santa Clara Division (408) 727-4500. Southern California— Irvine Division (714) 975-1669 or San Diego Division (714) 569-2218

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NORMAN A. PLATE

ting on tender tip growth
mato plant, hornworm adds girth
long, bright green body

Well-disguised, ell-fed hornworm

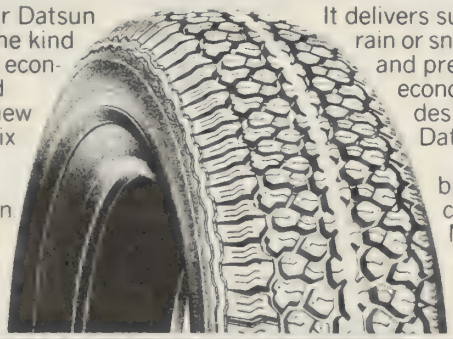
ching its way through stems and es, the tomato hornworm can do a rising amount of damage to your table garden before you realize you an unwelcome guest. Although to- hornworms can reach an obese 4 to ches long, their bright green color white stripes is a perfect disguise. y blend with the leaves of their fa- e foods: tomatoes, potatoes, and lant.

n, the first indication that they have n up residence is their dark green lack droppings—neat little ¼-inch ages of erstwhile vegetation that lit- he ground or foliage.

best course of action is to pick or k off any hornworms you can find destroy them by stomping them. If have a sharp eye and know what you looking for (see photograph above), should be able to get most of them. ou notice a hornworm with white objects attached, leave it alone, since indicates the presence of the horn- n's natural enemy, the larvae of a sitic wasp.

biological control *Bacillus thuringi-* (sold as Dipel, Thuricide, and Bio- knocks down young hornworms but not control the hefty older ones. It's od idea to till the soil at least 4 inches at the end of the growing season to roy the overwintering dormant state ysalis). □

HELP YOUR DATSUN DELIVER.



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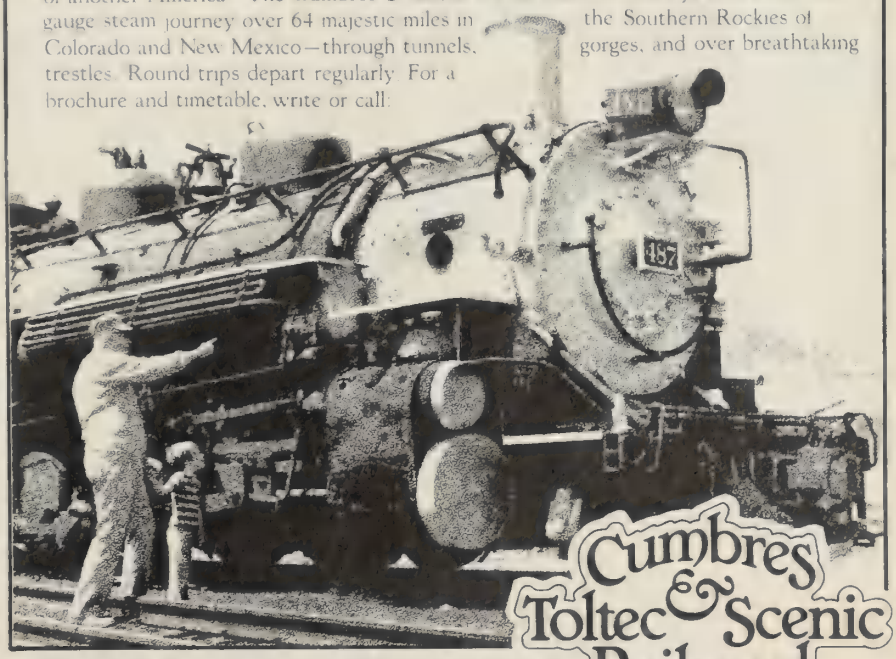

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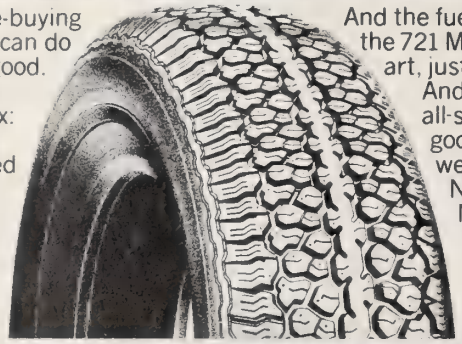
Honda handling is legendary. 721 Metrix handling will keep it that way.



And the fuel economy of the 721 Metrix is state of the art, just like your Honda's. And 721 Metrix is an all-season radial...as good a friend in foul weather as in fair. New Firestone 721 Metrix. Ready for the Accord and other Hondas, at your Firestone Retailer now.

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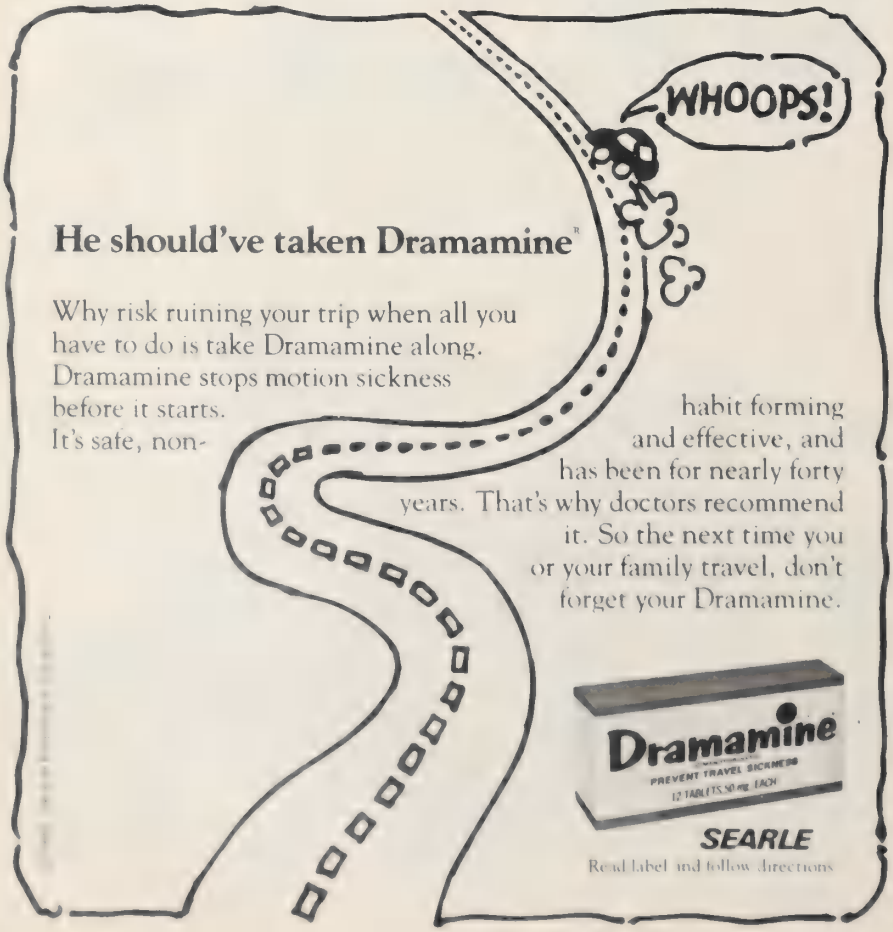

He should've taken Dramamine®

Why risk ruining your trip when all you have to do is take Dramamine along. Dramamine stops motion sickness before it starts. It's safe, non-habit forming and effective, and has been for nearly forty years. That's why doctors recommend it. So the next time you or your family travel, don't forget your Dramamine.

SEARLE

Read label and follow directions

How well will AAS winners do in your garden?

Each year, when the highest-rated new flowering annuals and vegetables are named as All-America Selections, you may wonder how the heralded new varieties will perform in your local climate and soil.

In 22 places throughout the West—from Alaska to subtropical San Diego—you can actually see the AAS winners being grown before you decide whether to buy and plant them yourself. These gardens usually plant the current and last year's selections, plus next year's candidates.

Here is a directory of AAS display gardens in the West. Check out the one nearest you; if you are traveling, it might be instructive to visit others.

Alaska

College. University of Alaska Experiment Station. Just west of Fairbanks on Old Nenana Highway, 1 mile past main campus. Look for Experimental Farm sign. AAS varieties marked with red, white, and blue stakes are interplanted with hundreds of varieties of flowering annuals, vegetables.

Palmer. University of Alaska Experiment Station. About 35 miles northeast of Anchorage on State Highway 1. Exit at Matanuska Valley Riding Stable sign; experimental farm is about ½ mile down the road. Also on view: flowering plant display gardens; trials of several growers' experimental hybrids; trials of cole crops.

Washington

Mount Vernon. Skagit Gardens, 1965 Johnson Road. Also on view at this retail nursery: Europe's Fleuroselect winners, the nursery's trial plants.

Seattle. Seattle Center, in front of Nile Temple, 305 Harrison St.

Oregon

Oregon City. Clackamas Community College, 19800 S. Molalla Avenue. Just south of Clairmont Hall.

Corvallis. Oregon State University. In People's Park south of campus infirmary.

California

San Francisco. Pier 39 on The Embarcadero. In planters in shopping complex near "Palace of Fun Arts." Also on view: extensive container landscaping.

Strybing Arboretum, Golden Gate Park. From main entrance near Ninth Avenue and Lincoln Way (admission free), turn right and walk to demonstration garden. Also on view: trials of experimental plants from five seed companies, trees and shrubs in rest of arboretum.

Woodside. Filoli Center. AAS plantings are part of extensive formal gardens. For directions and information on tour reservations, see page 57. (Ask your guide to point out the AAS plants.)

Menlo Park. Sunset Magazine headquarters

Villow and Middlefield roads. Also on iew: 7 acres of landscaped garden, now 1 years old. Closed on weekends.

an Luis Obispo. Cal Poly University. At rnamental Horticulture Unit (from Grand venue entrance, drive in, turn right at op sign, right at next stop sign, past fire ation, right at next through road, and ontinue to top of hill). Also on view: test lantings, arboretum, herbaceous perennial arden, solar greenhouse; student-grown lants are for sale.

ompoc. Civic Center, 100 Civic Center laza. Also on view: beds of the same owering plants grown in huge seed fields rrounding town.

rcadia. Los Angeles State and County rboretum, 301 N. Baldwin Avenue. etween Arboretum - *Sunset* Demonstration ardens and tropical greenhouse. Admission to arboretum is $1.50 for dults, 75 cents for children and senior itizens.) Also on view: experimental plants om several seed companies, and the rboretum's extensive tropical and ubtropical plantings.

an Diego. San Diego Wild Animal Park $5.25 for adults, $3.50 for children). ake I-15 to Via Rancho Parkway to San asqual Road to San Pasqual Valley Road. lantings are in beds and hanging baskets long covered walkway in the village. Also n view: the park's botanic garden lantings.

an Diego. Point Loma College, 3900 omaland Drive. In beds throughout the ampus, most near main entrance. (Ask ecurity guard at reception center for irections.) Also on view: many old palms nd sago palms and two 14-foot *Beaucarnea ecurvata* from site's original plantings arly in this century.

Idaho

Moscow. Plant and Soil Sciences Farm, Jniversity of Idaho. On State 8 (Troy lighway) 3 miles east of Moscow. Also on iew: 10 acres of woody ornamental trials.

Wyoming

owell. Park County Fairgrounds, Fifth nd Evarts streets. Behind the multipurpose uilding near the manager's office.

Colorado

ort Collins. Plant Environmental Research enter, Colorado State University, 630 W. ake Street. Also on view: extensive trial nd demonstration plots of other annuals, uits, perennials, and turf.

urora. City Parks Department, 151 otomac Street. Also on view: plants being ested for local adaptability.

enver. Denver Botanic Gardens, 909 York treet. In the annual test garden and the ommunity vegetable garden. Ask at the ate (admission $2 for adults, 50 cents for hildren, $1 for senior citizens) for irections. Also on view: vegetables and nnuals undergoing testing, the rest of the ardens.

olorado Springs. Horticultural Art Society. n demonstration garden at Monument alley Park, Glen Avenue at Mesa Road. lso on view: mixed shrub border, entury-old conifers, native plants, egetables, fragrance garden labeled n Braille.

Hawaii

ula, Maui. Maui Agricultural Research enter, University of Hawaii. On Mauna lace (take State 37; at Kula, turn left nto Copp Road, then left onto Mauna). lso on view: showy tropical banksias, ybrid tea roses. □

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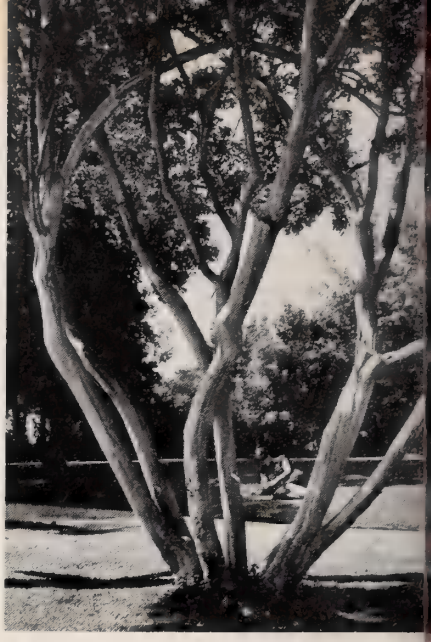
"the greenhouse people since 1856"

Newest member *of the crape myrtle clan is this low, draping miniature in the Dixie series. It comes in 10 colors, flowers all summer in hanging baskets or in the ground*



Multiple-trunked *crape myrtle demonstrates two of its finest features: handsome bark and branching structure*

Choosing the right crape myrtle . . . and then treating it right

Bower of flowers: *small grove marks the entry to a house in Woodland Hills, California. The five trees grow about 5 feet apart*

NORMAN A. PLATE

Few flowering plants rival crape myrtle versatility. With little care, it can be big, flouncy flowering shrub or a wel behaved garden-size tree. In its sma versions, you get intermediate bushe and hanging basket plants.

You've already seen the summer displa of crape myrtle (*Lagerstroemia indica* on pages 62 and 63. But summer isn't i only good season. In crape myrtle cour try, summer heat and fall chill produce rich show of yellow, orange, or dar scarlet foliage, and in winter the leafle branches make a handsome silhouett True aficionados prize crape myrtle inner bark, which is satiny smooth a marbled pink and green beneath i shaggy tan exterior.

Plant crape myrtles singly, group the in groves, or line them in informa hedges or screens. They're fine stree lawn, or patio trees. Our chart tells yo more about what they'll do for you.

They like it hot. Crape myrtles revel i heat, so plant in a sunny location. The tolerate reflected heat and light but lik some protection from hot, drying winds.

The plants aren't particular about soils– they grow well in many kinds. Mix i ground bark or other organic material a planting time.

If crape myrtles grow in too much shad or get too cool and moist, powdery mi dew can occur. You'll spot it first as powdery white smear on tender ne growth and flower buds. Treat with kara thane, funginex, or other fungicide a the first sign of infection. Or sprinkl foliage early in the morning to wash o the fungus spores.

In borderline areas where coastal fo overlaps with hot inland weather, yo can lessen mildew's chances by puttin

Today's crape myrtles, from knee-high mounders to 30-foot trees

	Their names, colors	How easy to find?	What else?
NIATURES . . . for baskets, pots, borders			
es, new this year, eer a new use—as ɔing hanging basket ts. Or put them in pots, low boxes; make low, nding borders. Grow to feet high, flatter if med	**White:** 'Snow Lace'. **Reds:** 'Bourbon Street', 'Baton Rouge', 'Cajun Red Beverly'. **Pinks:** 'Delta Blush', 'Bayou Marie'. **Purples:** 'Cordon Bleu', 'Lafayette', 'New Orleans', 'Mardi Gras'	A "hot" new plant. Many nurseries will have it—in 8-inch baskets or 1- and 5-gallon cans	To make plants cascade like basket fuchsias, pinch upward stems. Bloom May or June to first frost. Will grow in partial shade where it's very hot. Hardy to 15°. Outside of regular crape myrtle country, nurseries sell Dixies as tender perennials or annual container plants
ɔe **Myrtlettes** have been nd for a while. Most eries don't sell them; you to mail-order. tainers or low hedge. w to 4 feet in 4 or 5 years	No named varieties. Sold only in mixed colors	Mail-order seeds or small plants from Park Seed Co., Greenwood, S.C. 29647	Quick bloomers flower the first year from seed (3 to 4 months from spring sowing). More upright, taller than 'Dixies', but can be trained to a basket. Plant 2 feet apart for hedge. In cold climates, may freeze to ground, come back as perennial in spring
HE DWARFS . . . they become midsized shrubs			
e series dominates this p. They're half the size e big ones, usually grow 8 feet tall in 10 years. t singly or in rows; fine ıtio containers. Usually bs, but also mini-trees	The names almost speak for themselves: 'Petite Orchid', 'Petite Pinkie', 'Petite Snow', 'Petite Embers' (rose red), 'Petite Red Imp' (dark red), 'Pink Ruffles'. Some growers sell these by color, such as 'Dwarf White'	Fairly easy in most areas. Sold in 1- and 5-gallon sizes as bush or single-stemmed patio planter tree. 'Pink Ruffles' is less common	Thought of as low shrubs, but some may reach 10 feet under the right conditions. Pruning easily keeps them to waist or eye level. 'Petite Embers' and 'Petite Red Imp' tend to be 1 or 2 feet shorter than others. Striking trained as a little multi-trunked tree. *See two Petites in color, page 63.* 'Pink Ruffles' normally grows about 10 feet tall: bigger than 'Petites', smaller than the regular kinds
G SHRUBS, SMALL TREES . . . make them what you want			
sic crape myrtles. dsome tall shrubs, erows with e-ground blossoms. Or ure them as e-stemmed or itrunked trees 20 to 30 tall. Ideal small street, , lawn tree, excellent oves or rows	Many nurseries label them simply by color. **Whites:** 'Alba', 'White', 'Glendora White', 'Weeping White'. **Reds:** 'Gray's Red', 'Watermelon Red', 'William Toovey'. **Pinks:** 'Near East', 'Pink', 'Rosea', 'Rubra', 'Glowing Rose'. **Purples:** 'Kellogg's Purple', 'Lavender', 'Majestic Orchid', 'Select Purple'. **Variegated:** 'Peppermint Lace'	Easiest to find in 1- and 5-gallon sizes and, if you shop around, in 15-gallon cans and 24-, 36-inch boxes. Sold in two forms: multistemmed "bush" and single-stemmed "tree"	Adaptable size and shape. Let grow to full height or keep at 10 to 15 feet. Prune up to reveal mottled bark and graceful branching—especially handsome on multitrunked forms. (See growing tips below.) Also good in planter boxes. 'Peppermint Lace' seems to be shorter, best in bush (multistemmed) form. 'Glendora White' isn't prone to mildew. *Pictured here and in several colors on pages 62 and 63*
ın **Tribes** grow to about ame height. The series ed for increased ɔold iness, vigor, and mildew tance. Worth trying in desert and on coast	'Catawba', dark purple; 'Cherokee', red; 'Muskogee', lavender; 'Natchez', white; 'Potomac' and 'Powhatan', pinkish lavender; 'Seminole', pink; 'Tuscarora', coral pink	Not many nurseries have them. Most sold in coastal California in 1- and 5-gallon cans	Good news for warm-summer areas where mildew is a problem. Bright color range, good strong growth. Plants are big-leafed with large flower clusters. More kinds may be available in 2 or 3 years. *Photograph on page 63 shows two*

ɔe myrtles where they collect as much and sunlight as possible, such as reflective house walls and within tyards. Don't crowd plants; allow ree air movement. Look for mildew-tant forms such as the Indian Tribes is listed in the chart.

ering and feeding. Good drought ivors, crape myrtles will take just ıt anything—from little water along- a street to lots of it in a lawn. But -watered and moderately fertilized ts produce bigger flowers that last er. Water regularly and deeply dur- the growing season; feed once in the ng just before leaves break out and n in midsummer. Withholding water ards summer's end promotes fall r.

ilize the Dixies and other container-grown crape myrtles once a month and keep them well watered.

Pruning. Most crape myrtles need light trimming to keep them looking attractive and blooming well. In the winter, fastidious gardeners can clip off old flower clusters with hand shears or lopping shears and remove twiggy stems inside the canopy. Clear away suckers from the base of tree trunks to keep them clean and well shaped; otherwise they revert easily to big, low-branching shrubs.

You can stimulate heavier flowering by pruning plants more. Cutting the branches of big trees and shrubs back 12 to 18 inches works well, but more drastic pruning (shearing or heading main branches back to stumps) ruins the plant's graceful shape: it forces a mass of twiggy growth that blooms heavily but looks top-heavy—and in strong winds can topple a tree.

In the summer, cut off spent blossoms just after blooming to prolong the flowering season. Commercial nurseries do it routinely to get three flower cycles: in June, in July to August, and in September or October.

Training a multitrunked tree. Plants at the nursery usually come in two forms: bush (many-stemmed) or tree (staked and trained to a single trunk). If you want a multitrunked tree, pick the shrubby one and train it into a tree by selecting three, four, or five strong stems; remove the others. Prune suckers from the base and trim trunks regularly to keep them clean. Rub or flake off the outer bark to expose the delicately colored trunks. □

Garden walks, shows, fairs, sales . . . fuchsias, herbs, dahlias, mushrooms, begonias

NORTHERN CALIFORNIA

San Francisco. August is the month to apply for entry to docent training beginning September 16 at the Strybing Arboretum, Golden Gate Park. Telephone the education department of Strybing Arboretum Society at (415) 661-1316 weekdays between 9 and 4:30.

Oakland. The Rotary Natural Science Center offers nature walks on some Saturdays and film and slide shows most Sundays at 2 P.M. For information, call the center at (415) 273-3739.

Fresno. August 7. Iris rhizome sale by the Fresno Iris Society. Place: Ornamental Horticulture Unit, California State University Fresno, Chestnut and Barstow avenues. Hours: 10 to 2. Admission is free.

Saratoga. August 7. Third annual iris rhizome sale and summer show by the Clara B. Rees Iris Society. Place: El Paseo de Saratoga Shopping Center, Saratoga and Campbell avenues. Hours: 10 A.M. until sold out.

Sacramento. August 7 and 8. Annual begonia show presented by the Sacramento Begonia Society. Place: Iva Gard Shepard Garden and Arts Center, 3330 McKinley Blvd. Hours: 1 to 5 Saturday; 10 to 5 Sunday. Free.

Saratoga. August events presented by Saso Herb Gardens, 14625 Fruitvale Ave. Reservations are necessary; telephone (408) 867-0307.

August 8. Summer open house. Hours: 10 to 4. Free.

August 14. Workshop on creating a wreath of dried flowers and herbs from field and garden. Hours: 10 to 2. Fee: $25 (includes supplies). Bring a cup and brown bag lunch.

Newark. August 14 and 15. Annual dahlia show presented by the East Bay Dahlia Society. Place: New Park Mall, Mowry Ave. and State Highway 17. Hours: 10 to 6 Saturday; noon to 5 Sunday. Free.

Daly City. August 21 and 22. Annual fuchsia show and sale by the Pacifica Branch of the American Fuchsia Society. Place: Serramonte Shopping Center Mall, Interstate Highway 280 at State Highway 1. Hours: 10 to 5 Saturday; noon to 5 Sunday. Admission is free.

San Leandro. August 21 and 22. Annual dahlia show presented by the San Leandro Dahlia Society. Place: Bayfair Shopping Center, E. 14th St. and 155th Ave. Hours: 10 to 6 Saturday; 11:30 to 5 Sunday. Free.

Eureka. August 22. Twenty-seventh annual fuchsia show and plant sale by the Eureka Branch of the American Fuchsia Society. Place: Carson Memorial Building, Harris and J streets. Hours: 10 to 5. Admission is free.

Sacramento. August 24 through September 6. California Exposition and Fair. Of interest to home gardeners will be the exhibits in the Floriculture Building and the poultry and rabbits in the livestock area. There will be a petting zoo in the livestock area. Hours: 10 to 10 daily. Admission to the fair: $5 weekdays and $7 Saturday and Sunday; ages 4 and under, free.

San Francisco. August 27, 28, and 29. Forty-fifth annual San Francisco County Fair - Flower Show presented by member clubs. Place: Hall of Flowers, Golden Gate Park, Ninth Ave. and Lincoln Way. Hours: 10 to 6 daily. Plant auction Sunday at 2. Admission: $2; seniors and children 11 and under, $1.50.

The show will feature demonstrations by authorities on plant care, flower arranging, potting, and pruning. Potted plants and garden-related items will be sold.

Petaluma. August 28. Fuchsia show and plant sale by the Petaluma chapter, American Fuchsia Society. Place: Kenilworth Recreation Center, Fairgrounds Dr. Hours: 11 to 4. Admission is free.

COLORADO

Denver. August 3 (Tuesday), 5, (Thursday), and 7 (Saturday). Class on small-space gardening. Place: Classroom A, Denver Botanic Gardens, 1005 York St. Hours: 7 to 9 P.M. Tuesday and Thursday; 9 to noon Saturday. Fee: members, $10; nonmembers, $25. For necessary reservations, telephone (303) 575-2548.

Denver. August 5. Class on growing vines. Place: Denver Botanic Gardens. Hours: 9 to 11. Fee: members, $3; nonmembers, $6.

Denver. August 7. Field trip, sponsored by the Denver Botanic Gardens, to Rollins Pass to view timber-line vegetation. Meet at 8 A.M. at Boulder Public Library, 1000 Canyon Blvd. Fee: members, $3; nonmembers, $6. Sign up ea by calling the gardens at (303) 575-25 Wear boots and bring water and lunch.

Denver. August 11. Walk in Chatfi Arboretum, a new addition to Den Botanic Gardens. Meet at 8 A.M. in parking lot of the House, 909 York for carpooling to the arboretum. meet at 9 A.M. at the old schoolhou now the Chatfield Arboretum Visi Center (enter ¼ mile west of the int section of Deer Creek Road and St Highway 470). Fee: members, $3; n members, $6. Sign up early by calli the gardens at (303) 575-2548. W boots and bring water and lunch.

Pueblo. August 20 through 29. Colora State Fair. Place: the fairgrounds. Flo er exhibits in the Home Arts Buildi poultry in the Small Animals Buildi Hours: 10 to 10 daily. Admission: ages 6 through 11, $4.25; senior citize $2.50 Tuesday, August 24, and wee days before noon.

Denver. August 22. Annual Mushroo Fair presented by the Colorado My logical Society. Place: Denver Bota Gardens. Hours: 1 to 4. Admission the gardens: $2; seniors and children through 16, 50 cents.

UTAH

Salt Lake City. August 11. Tree w and talk with W. Richard Hildreth, rector of the State Arboretum of Ut Subject: new trees for landscaping Utah. Meet in front of the Natural H tory Museum, University of Utah, at P.M. for the 2-hour event. Free.

Salt Lake City. August 12. Shorten version of the August 11 event— brown bag tour from noon to 1 P. Meet at the museum as above. Free.

To announce your garden events

Would you like us to publicize show, sale, or other garden event t be held by your organization?

If so, simply send complete details t Garden Events Editor, *Sunset Maga zine*, Menlo Park, Calif. 94025. Fac sheets should reach us before the 15th three months before publication.

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As you're bringing in the harvest, look around... you can prune, plant for fall, sow seeds

Sunset's TERMOUNTAIN ARDEN GUIDE

Short growing season, cold winters

It's harvest time in high-elevation gardens this month. While picking and eating or storing vegetables may be your main job, our check list reminds you what else might need to be done.

Herbaceous peonies: they like it cold

One of the blessings of high-elevation gardening is the ability to grow herbaceous peonies to perfection—they do their best only after undergoing a pronounced winter chill. Case in point: the big double-flowered peonies pictured at right in Salt Lake City, where temperatures drop below zero every winter.

August and September are the months to shop for peony tubers in nurseries. There are many varieties in colors ranging from white through cream, pinks, reds, as well as chocolate tones and a yellow. Shop early for a good selection.

Plant tubers as soon as you get them home. Dig each hole 18 inches across and a foot deep. Mix the soil with large amounts of compost or a combination of peat and sand. Refill the hole to about 3 inches from the top, then plant the tuber and finish refilling the hole. Growth buds on the tuber should be no more than 2 inches from the surface or plants may not bloom. Apply a mulch of organic matter.

Water every other week until snows arrive. Plants will start blooming in midspring, and clumps will reach 2 to 4 feet in height.

(Now is also the time to dig up and divide old clumps that have become overcrowded. Replant fresh, smaller clumps as above.)

Identification guide to Rocky Mountain wildflowers

"What wildflower is *that*?" If you find yourself asking this question on drives or hikes in the Rockies, the new edition of *Rocky Mountain Wildflowers* (The Mountaineers, Seattle, 1982; $7.95) is for you. Naturalist Ronald J. Taylor's 1978 book, never widely distributed and now out-of-print in its original form, was reissued this year and now is sold in bookstores and outdoors stores throughout the West.

This 104-page guide is for the amateur. (Botanists and advanced amateur plantsmen use any of several excellent Rocky Mountain floras.) It's arranged by flower color. You turn to the section on, say, yellow flowers, scan through top-of-the-page flower shape symbols, and stop at one that fits the plant you have seen. Color photographs lead you from there.

Taylor's summaries include plant names, geographic distribution, growth habits, and other information on 148 plants. The presentation is logical and concise. Covered are the Rockies from the Canadian border to the range's southern tip in northern New Mexico.

Also instructive are clear sketches of leaf and flower shapes and the proper terms for each as used in the text.

A better way to bring pelargoniums indoors

Anticipating the cold days of winter, many mountain gardeners like to bring pelargoniums (you may be calling them geraniums) indoors to provide cheery bloom. But if you just move the patio-

DON NORMARK

White peony *blooms with marguerites, iris, and flax in Merle and Willard Pugh's garden in Salt Lake City*

grown plant inside, it is likely to drop many leaves and look scraggly.

Better to take 4-inch-long cuttings now and root them in 4-inch pots using sandy potting mix. Then set pots in a south- or east-facing window. The new plants will begin to bloom by October, and by spring they'll be big enough to go back outside.

Don't be too hasty with azaleas, Christmas cactus

Gardeners with azaleas or Christmas cactus (*Schlumbergera bridgesii*) outdoors in pots for the summer may be tempted to move them back indoors soon because nights will be cooling off this month. Don't—quite yet.

The cool nights encourage these plants to form flower buds, so leave them outdoors until the nighttime temperature drops to 40° (check the weather forecast or a maximum-minimum thermometer).

Snap off shoots *that start at base of tomato branches. If left to grow, they would sap energy from fruit already forming*

Be selective in letting your tomatoes branch

Most tomato plants, left to grow however they want, will branch out and produce new leaves right to the end of the growing season. This habit can produce a full, compact, good-looking plant. But it cuts down on fruit production, which is especially important in a short-season climate.

If you impose some discipline—especially now, while fruits are forming and ripening—you can increase tomato production. Pinch out new shoots as they develop, usually where existing branches already arise from the main stem. If, as in the case pictured at left, the new shoot is already several inches long, snap it off or cut with sharp pruning shears.

Leave that broccoli in the ground

In highest-elevation, cool-summer areas, gardeners can often enjoy two harvests of broccoli from the same plants. Broccoli plants usually stop bearing for about a month in midsummer. But if you leave plants in the ground, you may find new side shoots emerging until Thanksgiving.

Water deeply once a week, apply a layer of mulch, and feed now with a complete fertilizer to encourage these new shoots to produce new heads. These will be smaller than during the main season, but more numerous and just as tasty. □

AUGUST CHECK LIST: *Here is what to do*

☐ **Divide perennials.** To increase your supply, divide columbine, delphinium, German iris, Oriental poppies, peonies, and Shasta daisies.

☐ **Harvest fruits and vegetables.** Check daily for beets, broccoli, bush beans, cauliflower, corn, new potatoes, raspberries, strawberries, summer squash, tomatoes, and zucchini. Cut peppermint and hang in bunches to dry for making tea.

☐ **Plant for a fall harvest.** Sow seeds of beets, carrots, parsley, spinach, and radishes; these should be ready by fall. In mildest climates, set out transplants of broccoli, cabbage, and cauliflower.

☐ **Prune suckers.** This month, you may see fast-growing new suckers emerging from trunks or branches of crabapples, birch, hawthorn, maple, Russian olive, and willows. Prune them off.

☐ **Sow wildflower seeds.** For profuse bloom next spring, sow seed of annual and perennial wildflowers. Most will grow without any soil preparation. But for best germination and growth, cultivate soil lightly, broadcast seeds, then mulch with a ½- to 1-inch layer of ground bark.

☐ **Tidy the rock garden.** Shear back cornflowers and California poppies to encourage further bloom. Remove seed pods from aquilegia, arabis, gypsophila, and iberis.

☐ **Weed.** By now, most weeds are gone. But as occasional fresh ones appear, pull them promptly so they don't mature and spread seed.

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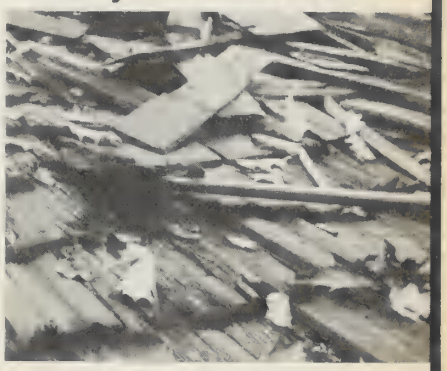

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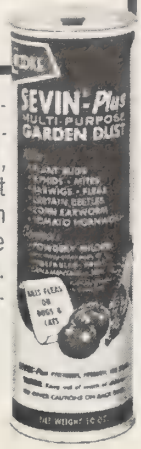

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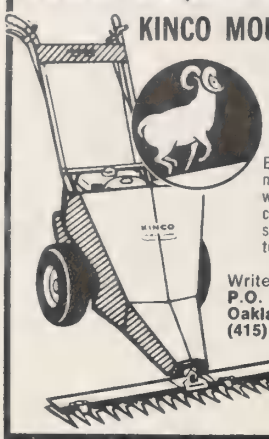

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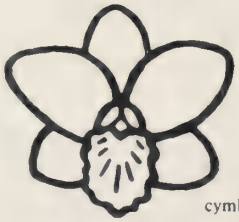

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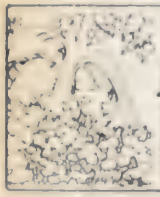

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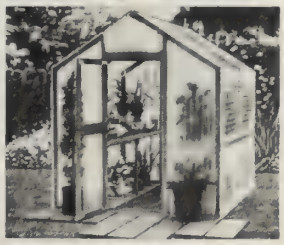

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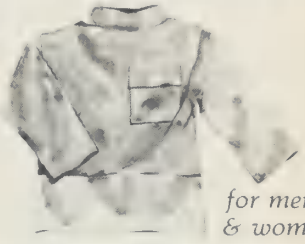

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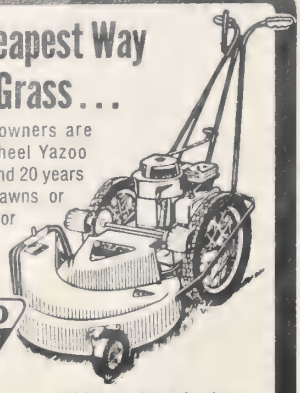

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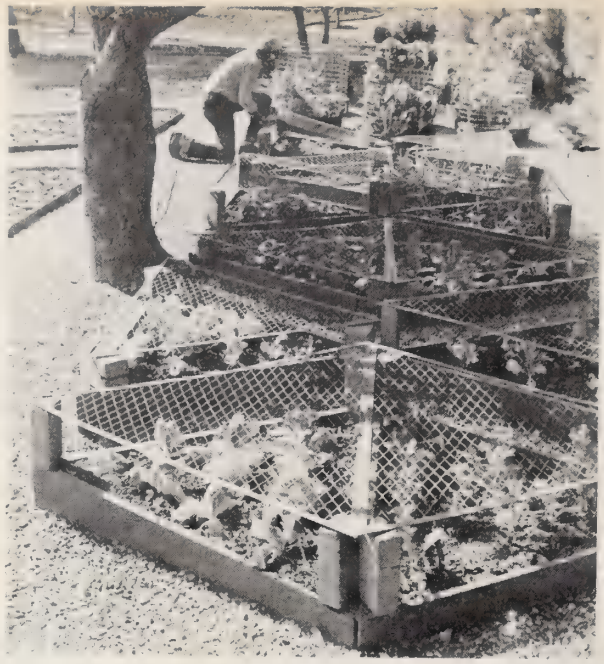

Custom-made *metal grates cover raised beds; supporting bricks can be laid flat, upended, or stacked to accommodate growing plants*

Chard guard: *3-foot ring of 2-inch wire mesh. Deer may nibble leaves poking out, usually don't dip in*

Clear but deer-proof *glass top hinges down to cover seed starter box that accommodates two flats*

Dick Queirolo's deer discouragers

Determined, hungry deer can and do find ways around devices much more sophisticated than those shown above. But if you don't want a fortress-like garden, these devices offer a compromise. They prod deer to browse elsewhere while enabling plants to grow large enough to survive a few nibbles.

The raised beds in Dick Queirolo's garden in Novato, California, have custom-fabricated metal grate covers that rest atop bricks. An effective and less expensive cover could be made from 1-inch wire mesh or hardware cloth mounted to wooden frames. For seedlings or low-growing crops (lettuce, parsley, onions), lay support bricks horizontally. As plants grow, turn bricks on end or stack them.

To protect taller crops (chard, tomatoes), Mr. Queirolo uses cylinders of 2-inch wire mesh.

The nibble-proof starter box for seeds is homemade. Its clear glass top (plastic would work) slants toward the sun. When closed, the box holds enough heat to speed germination and seedling growth. Once seeds sprout, the top must be propped open on warm days. □

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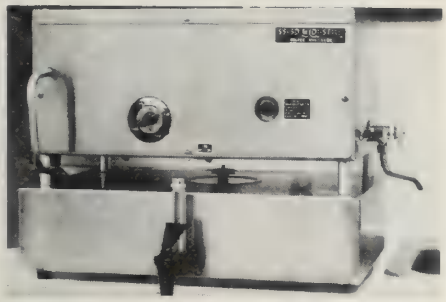

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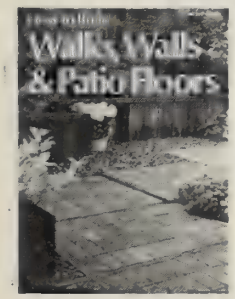

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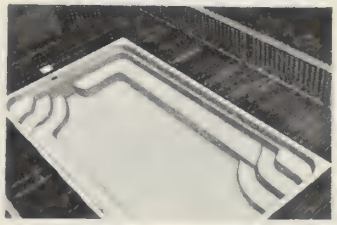

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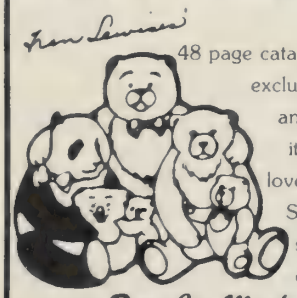

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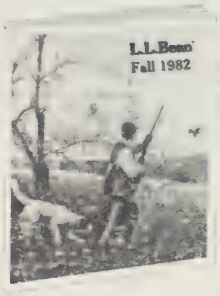

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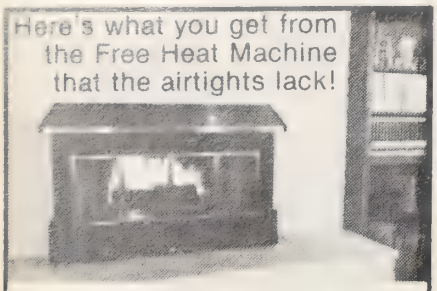

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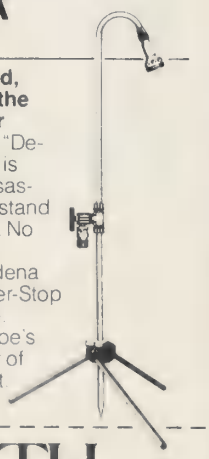

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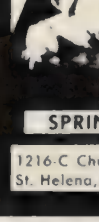

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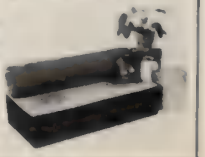

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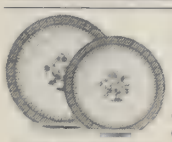

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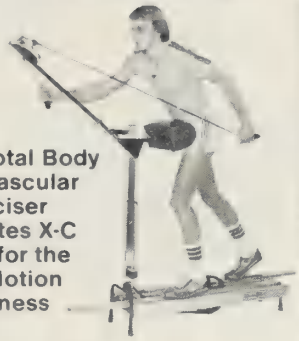

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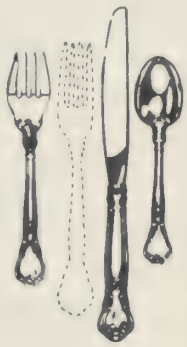

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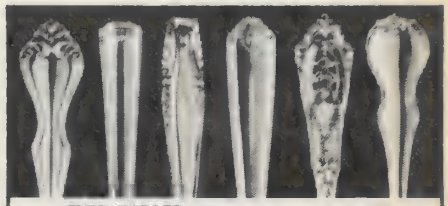

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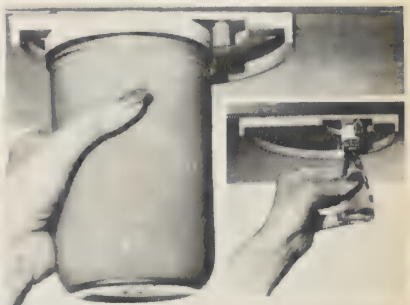

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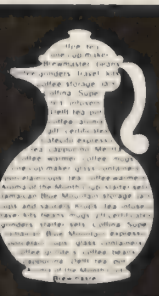

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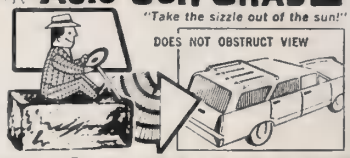

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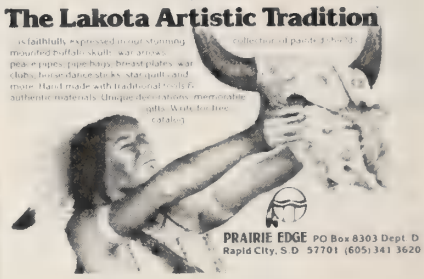

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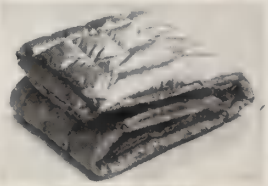

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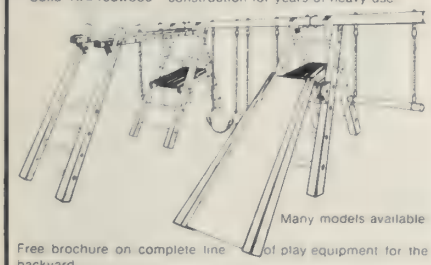

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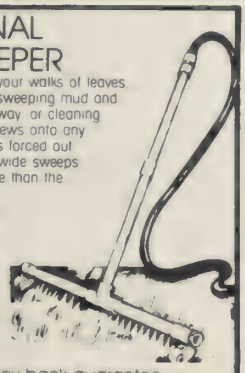

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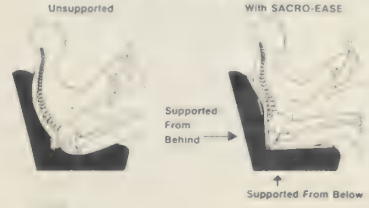

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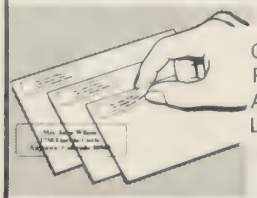

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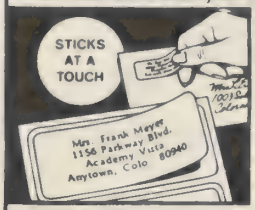

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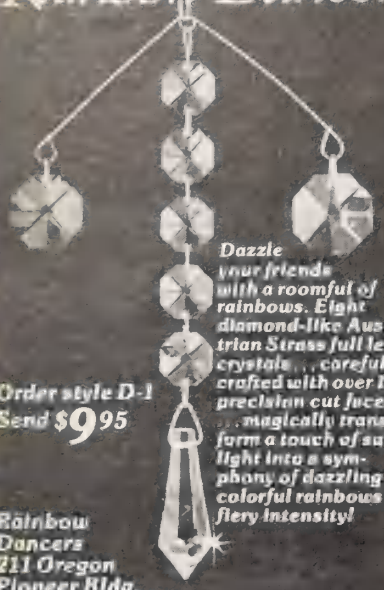

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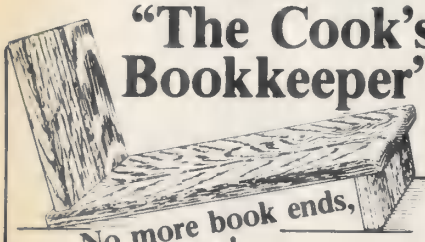

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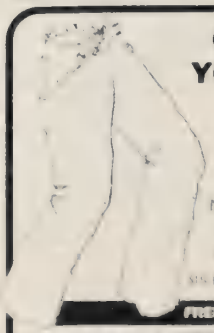

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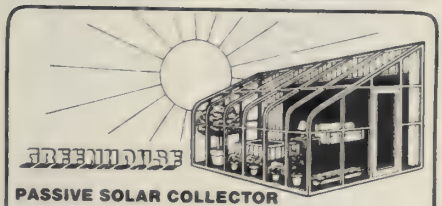

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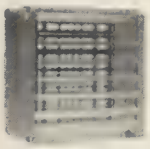

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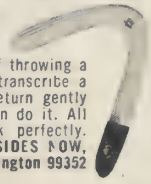

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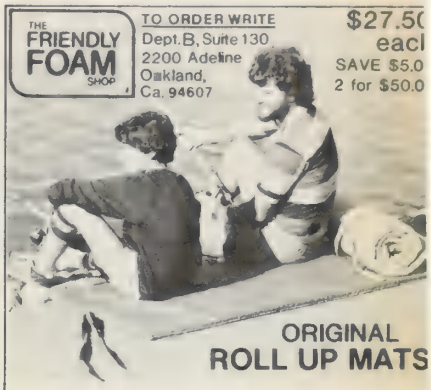

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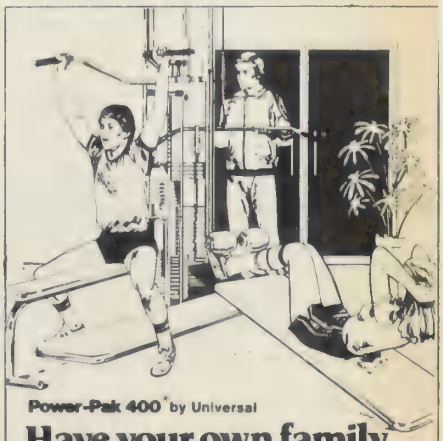

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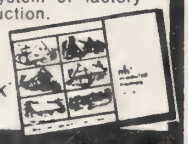

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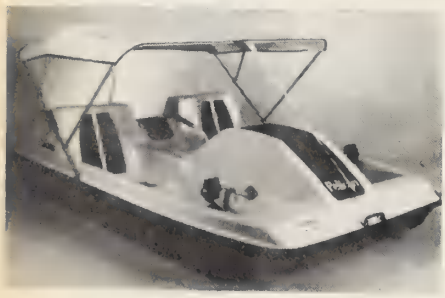

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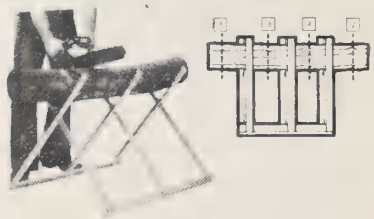

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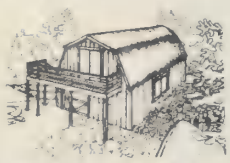

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Learning from Mount St. Helens

At 8:30 A.M. on May 18, 1980, one of the most dramatic chapters in the natural history of the modern West was announced with these words: "This is it!" Within seconds, the speaker—geologist David Johnston—had perished in an eruption that blasted the top off Mount St. Helens and claimed the lives of 60 other persons.

Today, the chapter is far from finished: the volcano is still dangerously active, and each new burst of activity there—as elsewhere in the volcanic West—is revealing pieces of nature's earth-shaping puzzle.

More than 500 scientists have been drawn to St. Helens to study the volcano's behavior and its impacts. Teams from the U.S. Geological Survey and Western universities are leading much of the research. At the David A. Johnston Cascades Volcano Observatory in Vancouver, Washington, USGS and University of Washington scientists have accurately predicted several dome-building eruptions of St. Helens by monitoring gases emitted by the volcano and increases in earthquake activity called harmonic tremor. Other scientists, working at the USGS Hawaiian Volcano Observatory, have predicted eruptions of Kilauea.

With further research, the capability to predict eruptions may prove to be a lifesaver all around the Pacific "Ring of Fire." (Swarms of tremors and new thermal activity near Mammoth Lakes, California, prompted the USGS to issue a notice of "potential volcanic hazard" for that area of the eastern Sierra in late May.)

In the volcanic wilderness that now surrounds St. Helens, biological scientists are carrying on research projects ranging from ecological succession to natural revegetation. Amidst the thick gray ash, metal-eating bacteria were soon discovered thriving in a "primordial brew" that formed in pools of stagnant water. Higher life forms—from fir trees to elk—are also being studied to see how they reestablish themselves.

How should this strange new environment be managed? The U.S. Forest Service recently recommended that 84,710 acres of Gifford Pinchot National Forest be managed as the Mount St. Helens National Volcanic Area. However, various legislators and conservation groups in the Northwest would like to see the area expanded, and some feel it merits the additional protections of national monument status. Congress is now considering legislation that would establish Mount St. Helens as the first national monument under Forest Service management.

Meanwhile, the Forest Service is developing limited visitor facilities in designated safe zones within view of Mount St. Helens, including a new interpretive center to be built in Washington's Seaquest State Park.

On a clear day this summer, if you happen to be traveling along Interstate 5 between Portland and Ridgefield, Washington, look eastward: Mount St. Helens may reward your gaze by spouting a plume of steam. For a closer view, seek the guidance of rangers at Gifford Pinchot National Forest, 500 W. 12th St., Vancouver 98660; (206) 696-7500.

MICHAEL THOMPSON

WINDOW ON THE WEST: *"Blowdown zone"*

The aerial view at above left, taken about 8 miles north of Mount St. Helens, looks over the west shore of Spirit Lake to the volcano's crater, where steam plumes from a lava dome. The May 18, 1980, eruption blasted over adjacent ridges, mowing down mature trees as if they were matchsticks. Enough timber to build a quarter of a million houses was downed or destroyed. Today in the blowdown zone, salvage crews race to recover some of the merchantable timber before decay sets in. Natural and man-assisted reforestation will be ongoing for decades.

Shot with a 43-86 zoom lens, at f5.6 at 1/125 sec.

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California Avocado Chiffon Pie.

1 envelope Knox Unflavored Gelatine
6 Tablespoons sugar
2 eggs, separated
1½ cups milk
1 California Avocado, peeled, pitted and mashed (1 cup)
1/4 cup lemon juice
9-inch graham cracker crust

In medium saucepan, mix unflavored gelatine with 4 tablespoons sugar; blend in egg yolks beaten with milk. Let stand 1 minute. Stir over low heat until gelatine is completely dissolved, about 5 minutes. With wire whip or rotary beater, blend in avocado and lemon juice. Pour into large bowl and chill, stirring occasionally, until mixture mounds slightly when dropped from spoon.

In medium bowl, beat egg whites until soft peaks form; gradually add remaining sugar and beat until stiff. Fold into gelatine mixture. Turn into prepared crust; chill until firm. Brush generously with additional lemon juice. Garnish, if desired, with whipped cream. Makes about 8 servings.

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